



# Parts Manual

Our energy working for you.™



## Generator Set

DGAB (Spec F)  
DGAC (Spec F)  
DGAD (Spec F)  
DGAE (Spec C)  
DL4 (Spec C-F)  
DL6 (Spec C-F)  
DL6T (Spec A-C)  
A41 (Spec E)  
A61 (Spec E)  
AT61 (Spec B)

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE)

## SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



*This symbol warns of immediate hazards which will result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.*

## PRODUCT SAFETY PRECAUTIONS



***Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.***



***Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.***



***Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!***



***Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!***

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## Introduction

This parts manual applies to the standard generator sets as listed below. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. All references in the parts description or page heading that pertain to specification letter differences for replacement parts are for the model listed on the identification label affixed to the generator set control. Throughout this manual left (non-accessory) and right (accessory) sides are determined by facing the rear or generator end of the set.

### Generator Set Data Table

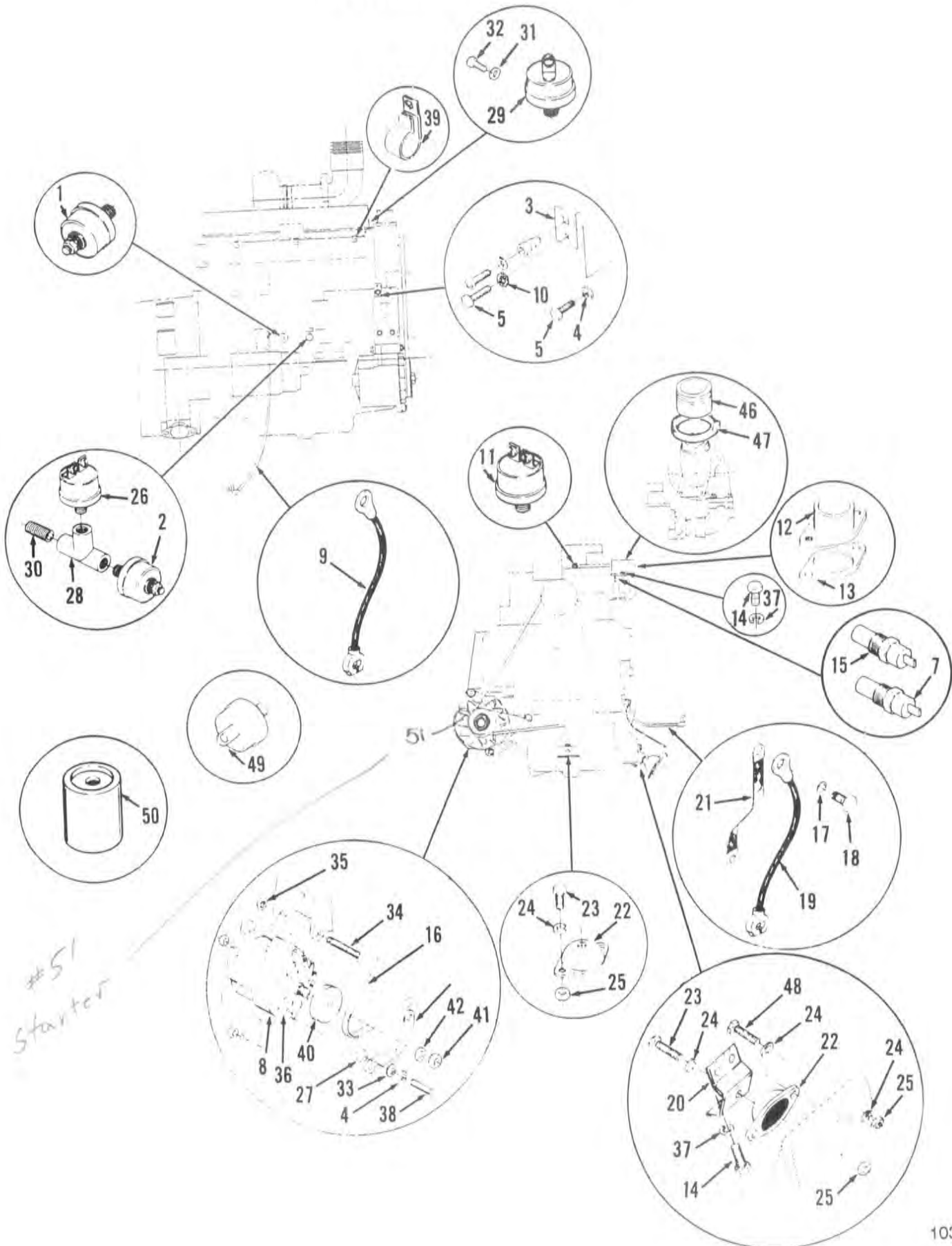
CUMMINS/ONAN MODEL IDENTIFICATION	ONAN MODEL IDENTIFICATION	CUMMINS MODEL IDENTIFICATION	RATING
16.0 DGAB/#@	16.0DL4-*/#@	16A41-*/#@	16,000 WATTS
20.0 DGAB/#@	20.0DL4-*/#@	20A41-*/#@	20,000 WATTS
20.0 DGAC/#@	20.0DL6-*/#@	20A61-*/#@	20,000 WATTS
25.0 DGAC/#@	25.0DL6-*/#@	25A61-*/#@	25,000 WATTS
25.0 DGAD/#@	25.0DL6-*/#@	25A61-*/#@	25,000 WATTS
30.0 DGAD/#@	30.0DL6-*/#@	30A61-*/#@	30,000 WATTS
32.0 DGAE/#@	32.0DL6T-*/#@	32AT61-*/#@	32,000 WATTS
40.0 DGAE/#@	40.0DL6T-*/#@	40AT61-*/#@	40,000 WATTS

### Electrical Data Table

*VOLTAGE CODES	VOLTS	HERTZ	WIRE	PHASE	NOTES
(3AR)	100/200	60	4	1	
B (3R)	120/240	60	4	1	
(7R)	220/380	60	4	3	
(15R)	120/240	60	4	1	
L (15R)	120/208	60	12	3	
	120/240				
	127/220				
	139/240				
	240/416				
	254/440				
	277/480				
(53R)	120/240	50	4	1	
(515R)	110/190	50	12	3	
	110/220				
	115/200				
	115/230				
	120/208				
	127/220				
	220/380				
	230/400				
	240/416				
	254/440				

- \* - Voltage codes are not used on current Cummins brand generator sets. On the older Onan and Cummins generator sets the voltage codes follow model letter designations. A letter was used in the model to indicate the voltage codes. This replaced the corresponding number and letter designations (in brackets) as listed in the Electrical Data Table column. (Example: 20.0 DL4-L/ was formerly 20.0 DL4-15R/)
- # - Specification number: Number 1 is standard, all others indicate variations.
- @ - Specification letter: Letter advances (C to D, D to E, etc.) with major manufacturing changes.
- + - These generators are reconnectable, refer to Operator's Manual for wiring data.

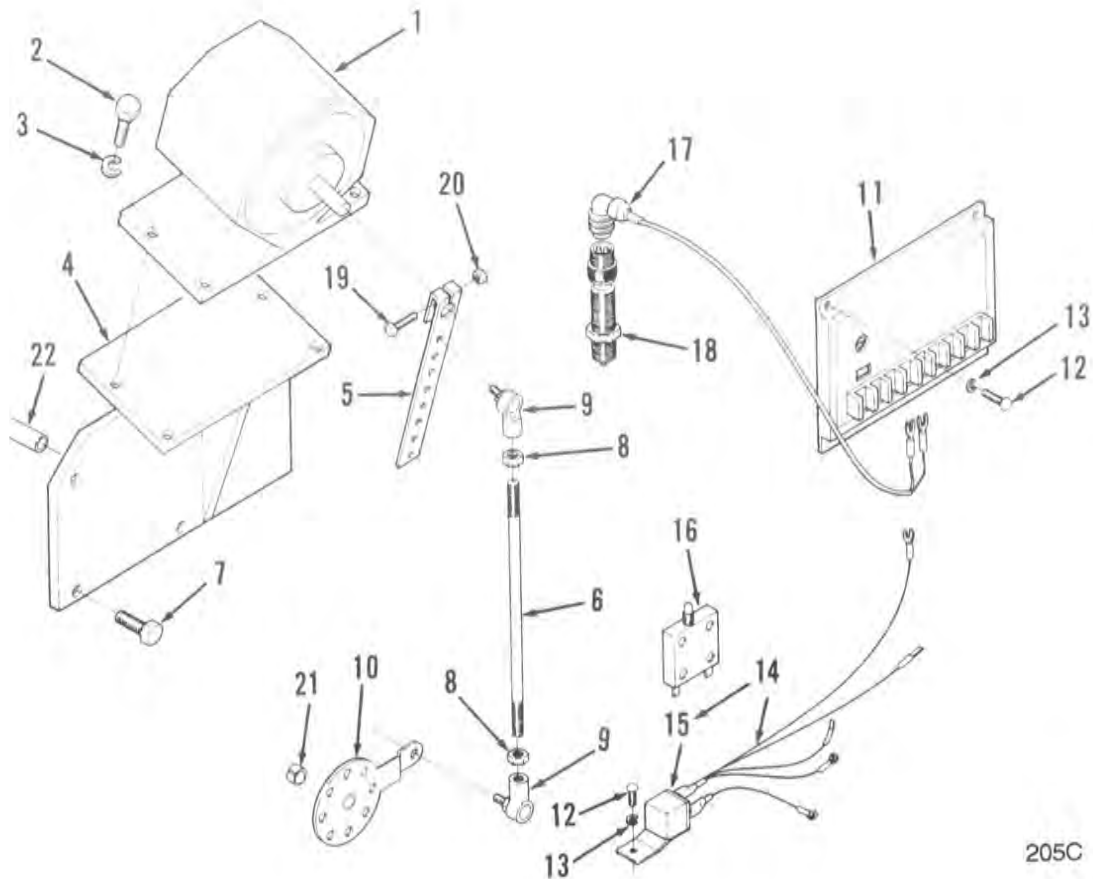
# External Engine Parts



# External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0244	1	Sender, Pressure - Oil	34	718-1067	1	Screw, Hex Head -
2			Switch, Pressure - Low Oil				Cap (M10 x 1.5 x 90)
	309-0169	1	DL4, DL6 - Spec C - D	35	860-2009	1	Nut, Hex (M10 x 1.5)
	309-0169	1	DL6T - Spec A	36			Fan, Alternator
	309-0561	1	DL4, DL6 - Begin Spec E		191-1981	1	DL4, DL6 - Begin Spec F
	309-0561	1	DL6T - Begin Spec B		191-1981	1	DL6T - Begin Spec C
	309-0561	1	DGAB, DGAC, DGAD, DGAE, A41, A61, AT61		191-1981	1	DGAB, DGAC, DGAD, DGAE
3			Bracket, Assembly - Terminal	37	850-2012	10	Washer, Spring - Lock (M12)
	332-1292	1	DL4, DL6 - Begin Spec F	38	800-2060	1	Screw, Hex Head -
	332-1292	1	DL6T - Begin Spec C				Cap (M8 x 1.25 x 35)
	332-1292	1	DGAB, DGAC, DGAD, DGAE	39			Clamp, J
4			Washer, Lock (M8)		332-2634	3	DL4, DL6 - Begin Spec F
	850-2008	5	DL4, DL6 - Begin Spec F		332-2634	3	DL6T - Begin Spec C
	850-2008	5	DL6T - Begin Spec C		332-2634	3	DGAB, DGAC, DGAD, DGAE
	850-2008	5	DGAB, DGAC, DGAD, DGAE	40			Pulley, Alternator
5			Screw - Hex Head -		191-1339	1	DL4, DL6 - Spec C - E
			Cap - (M8 x 1.25 x 25)		191-1339	1	DL6T - Spec A - B
	800-2058	4	DL4, DL6 - Begin Spec F		191-1339	1	A41, A61, AT61
	800-2058	4	DL6T - Begin Spec C		191-2032	1	DL4, DL6 - Begin Spec F
	800-2058	4	DGAB, DGAC, DGAD, DGAE		191-2032	1	DL6T - Begin Spec C
6	191-1321	1	Spacer, Bracket - Alternator		191-2032	1	DGAB, DGAC, DGAD, DGAE
7	309-0436	1	Switch, Temperature - Pre-High Engine	41			Nut - Hex (M16)
8			Alternator		870-2161	1	DL4, DL6 - Begin Spec F
	191-1525	1	DL4, DL6, A41, A61 - Spec C - E (Motorola)		870-2161	1	DL6T - Begin Spec C
	191-1525	1	DL6T, AT61 - Spec A - B (Motorola)		870-2161	1	DGAB, DGAC, DGAD, DGAE
	191-1983-01	1	DL4, DL6 - Begin Spec F (Bosch)	42			Washer, Spring (M16) - Lock
	191-1983-01	1	DL6T - Begin Spec C (Bosch)		851-0039	1	DL4, DL6 - Begin Spec F
	191-1983-01	1	DGAB, DGAC, DGAD, DGAE (Bosch)		851-0039	1	DL6T - Begin Spec C
9	416-0618	1	Cable, Positive - Battery		851-0039	1	DGAB, DGAC, DGAD, DGAE
10	856-0010	1	Washer, EIT - Lock	43			Nut, Hex
11	193-0318	1	Sender, Temperature - Water		860-2009	1	DL4, DL6 - Spec C - E
12			Flange, Exhaust		860-2009	1	DL6T - Spec A - B
	155-1916	1	DL4, DL6, DGAB, DGAC, DGAD, DGAE, A41, A61, AT61		860-2009	1	A41, A61, AT61
	155-1916	1	DL6T - Begin Spec B		860-2008	1	DL4, DL6 - Begin Spec F
13			Gasket, Flange - Exhaust		860-2008	1	DL6T - Begin Spec C
	155-2515	1	DL4, DL6, DGAB, DGAC, DGAD, DGAE, A41, A61, AT61		860-2008	1	DGAB, DGAC, DGAD, DGAE
	155-2515	1	DL6T - Begin Spec B	44			Washer, Spring - Lock
14	720-1072	10	Screw, Hex Head - Cap (M12 x 1.76 x 20)		740-1008	2	DL4, DL6 - Spec C - E
15	309-0437	1	Switch, Temperature - High Engine		740-1008	2	DL6T - Spec A - B
16	511-0147-13	1	Belt - Alternator		740-1008	2	A41, A61, AT61
17	853-2012	2	Washer, Lock - ET (M12)		850-2005	2	DL4, DL6 - Begin Spec F
18	800-2110	2	Screw, Hex Head - Cap (M12 x 1.75 x 20)		850-2005	2	DL6T - Begin Spec C
19	416-0530	1	Cable, Negative - Battery		850-2005	2	DGAB, DGAC, DGAD, DGAE
20	403-1929	2	Mount, Engine	45			Nut, Hex
21	337-0090	1	Strap, Ground - Electrical		860-2009	2	DL4, DL6 - Spec C - E
22	402-0466	3	Cushion, Mount		860-2009	2	DL6T - Spec A - B
23	800-0090	3	Screw, Cap, Hex Head (1/2-13 x 1")		860-2009	2	A41, A61, AT61
24	850-0060	3	Washer, Spring (1/2") - Lock		860-2006	2	DL4, DL6 - Begin Spec F
25	862-0016	3	Nut, Hex (1/2-13)		860-2006	2	DL6T - Begin Spec C
26	309-0272	1	Switch, Pressure - Pre-Low Oil		860-2006	2	DGAB, DGAC, DGAD, DGAE
27	191-1541	1	Spacer, Strap - Alternator	46	127-0132	1	Tube, Exhaust -
28	505-0059	1	Tee, Pipe (1/8)				DL6T, AT61, DGAE
29	309-0269	1	Switch, Temperature - Low Engine	47			Clamp
30	505-0098	1	Nipple, Pipe (1/8" x 3/4")		503-0965	1	DL4, DL6 - Spec C - E
31	740-1008	1	Washer, Flat (M10)		503-0965	1	DL6T - Spec A - B
32	800-2085	1	Screw, Hex Head - Cap (M10 x 1.5 x 20)		503-0965	1	A41, A61, AT61
33	526-2106	1	Washer, Flat (M8)		503-0998	1	DL4, DL6 - Begin Spec F
					503-0998	1	DL6T - Begin Spec C
					503-0998	1	DGAB, DGAC, DGAD, DGAE
				48	800-0091	2	Screw, Hex Head -
							Cap (1/2-13 x 1 1/4")
				49			Sender, Temperature - Oil
					193-0353	1	DL4, DL6 - Spec C - E
					193-0353	1	DL6T - Spec A - B
					193-0353	1	A41, A61, AT61
					193-0388	1	DL4, DL6 - Begin Spec F
					193-0388	1	DL6T - Begin Spec C
					193-0388	1	DGAB, DGAC, DGAD, DGAE
				50			Filter, Oil
					5.2" 122-0550	1	With Built in Pressure Relief
					6.98" 122-0712	1	Without Built in Pressure Relief
					51 191-1959	1	STARTER

# Electronic Governor

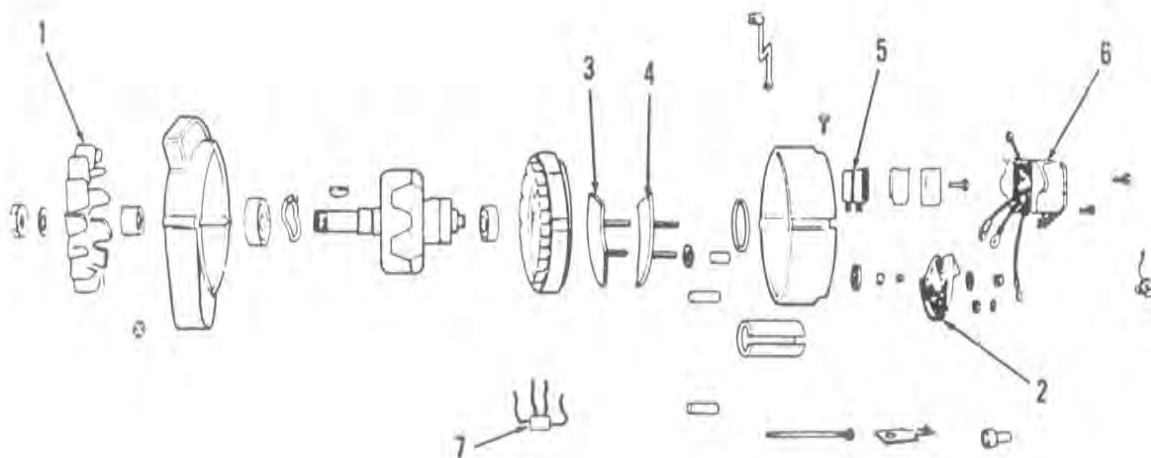


205C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0566	1	Actuator, Governor	12	813-0103	5	Screw, Machine - Round Head (#10-32 x 3/4")
2	800-0006	4	Screw, Cap - Hex Head (1/4-20 x 7/8")	13	850-0030	5	Washer, Lock - Spring (#10)
3	850-0040	4	Washer, Lock - Spring (1/4")	14	338-1705	1	Harness, Wiring - (Includes Relay)
4	150-1996	1	Bracket, Mounting	15	307-1886	1	Relay
5	151-0567	1	Arm, Governor (Includes Screw and Nut)	16	320-0540	1	Breaker, Circuit 15 Amp (CB13) Includes Mounting Nuts
6	150-1923	1	Rod, Governor Control	17	338-1765-04	1	Cable, Magnetic Pickup
7	800-2071	4	Screw, Cap - Hex Head (M8 x 90 mm)	18	151-0603-02	1	Sensor, Magnetic Speed
8	870-0131	2	Nut, Hex - with ET (#10-32)	19	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1")
9	150-0939	2	Joint, Ball	20	870-0065	1	Nut, Self - Locking (1/4-20)
10	151-0437	1	Kit, Throttle Modification (Fuel Injection Pump)	21	147-0779	1	Sleeve, Throttle - Stop
11	151-0565	1	Control, Governor (A12) (Includes Jumper)	22	130-1107	2	Spacer

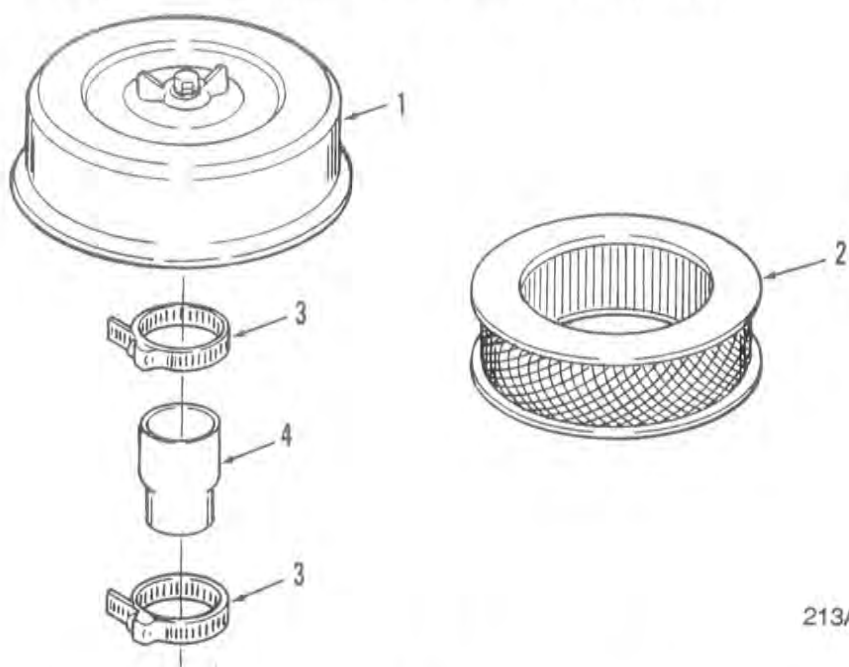


**Alternator Components**  
**DL4, DL6 (Spec C-E), DL6T (Spec A-B),**  
**A41, A61 (Spec E), AT61 (Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1525	1	Alternator (Complete) Used Beginning on Late Spec C Models - Has No Isolation Diodes on Back Side of Alternator (Replaces Early Spec C Models with Isolation Diode Assembly on Back Side of Alternator)	5			Brush Assembly Spec C
1	191-0943	1	Fan, Alternator		191-0659	1	Used on Early Spec C Models with Isolation Diode Assembly
2	191-1454	1	Diode Assembly, Isolation - Used on Early Spec C Models		191-1558	1	Used on Late Spec C Models without Isolation Diode Assembly)
3			Diode, Rectifier - Negative Spec C		191-1558	1	Begin Spec D
	191-1453	1	Used on Early Spec C Model with Isolation Diode Assembly	6			Regulator, Voltage Spec C
	191-1560	1	Used on Late Spec C Models without Isolation Diode Assembly		191-1457	1	Used on Early Spec C Models with Isolation Diode Assembly
	191-1560	1	Begin Spec D		191-1557	1	Used on Late Spec C Models without Isolation Diode Assembly
4			Diode, Rectifier - Positive Spec C		191-1557	1	Begin Spec D
	191-1452	1	Used on early Spec C Models with isolation Diode Assembly	7	191-1556	1	Diode, Trio - Used Beginning on Late Spec C Models without Isolation Diode Assembly
	191-1559	1	Used on Late Spec C Models without Isolation Diode Assembly				
	191-1559	1	Begin Spec D				

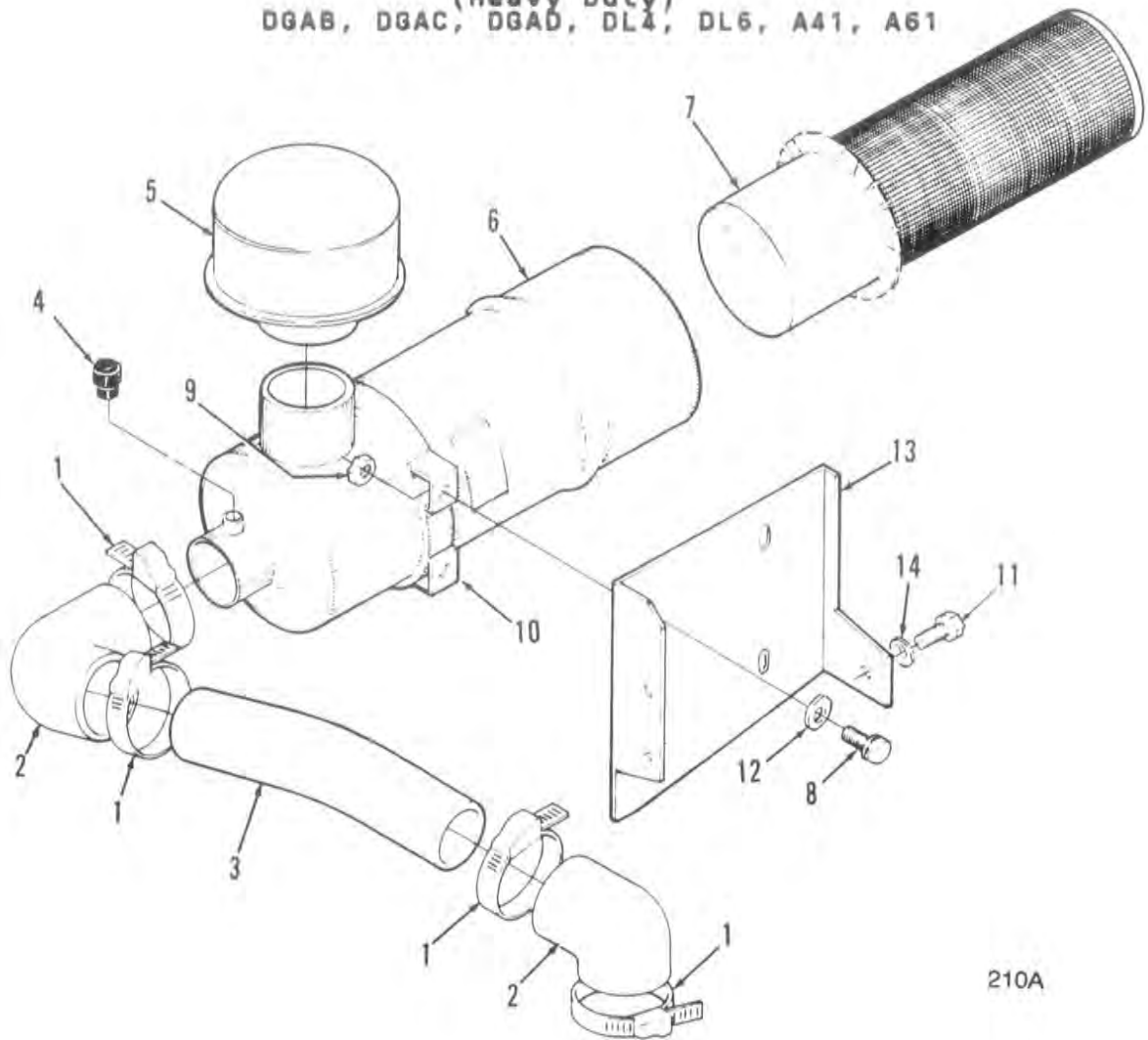
Air Cleaner  
(Standard)  
DGAB, DGAC, DGAD, DL4, DL6, A41, A61



213A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1091	1	Cleaner Assembly, Air (Includes Element)	3	503-0648	2	Clamp, Hose
2	140-1089	1	Element	4	503-1181	1	Hose, Reducing

**Air Cleaner  
(Heavy Duty)**  
DGAB, DGAC, DGAD, DL4, DL6, A41, A61

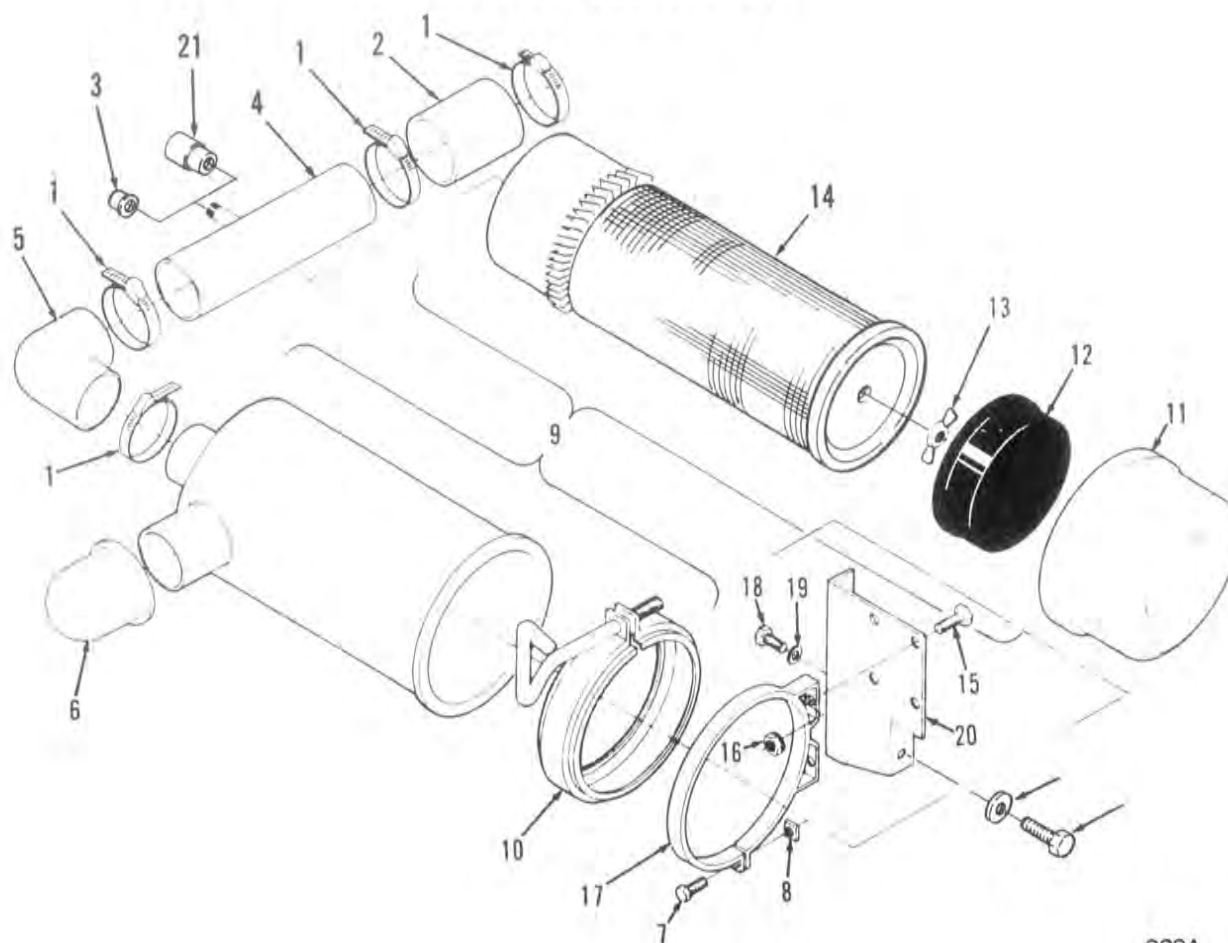


210A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0354	4	Clamp, Hose
2	503-1222	2	Elbow, 90°
3			Tube, Intake
	140-1844	1	DGAB, DL4, A41
	140-1845	1	DGAC, DGAD, DL6, A61
4	140-1791	1	Indicator, Service
5	140-1787	1	Hood, Air Cleaner
6	140-1841	1	Cleaner, Air (Includes Element)
7	140-1851	1	Element

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	718-1034	4	Screw, Cap - Hex Head (M8 x 18 mm)
9	750-1006	4	Nut, Hex (M8)
10	140-0722	2	Band, Mounting
11	718-1073	1	Screw, Cap - Hex Head (M12 x 25 mm)
12	740-1006	4	Washer, Flat (M8)
13	140-1847	1	Bracket, Mounting
14	740-1010	1	Washer, Flat (M12)

# **Air Cleaner DGAE, DL6T, AT61**



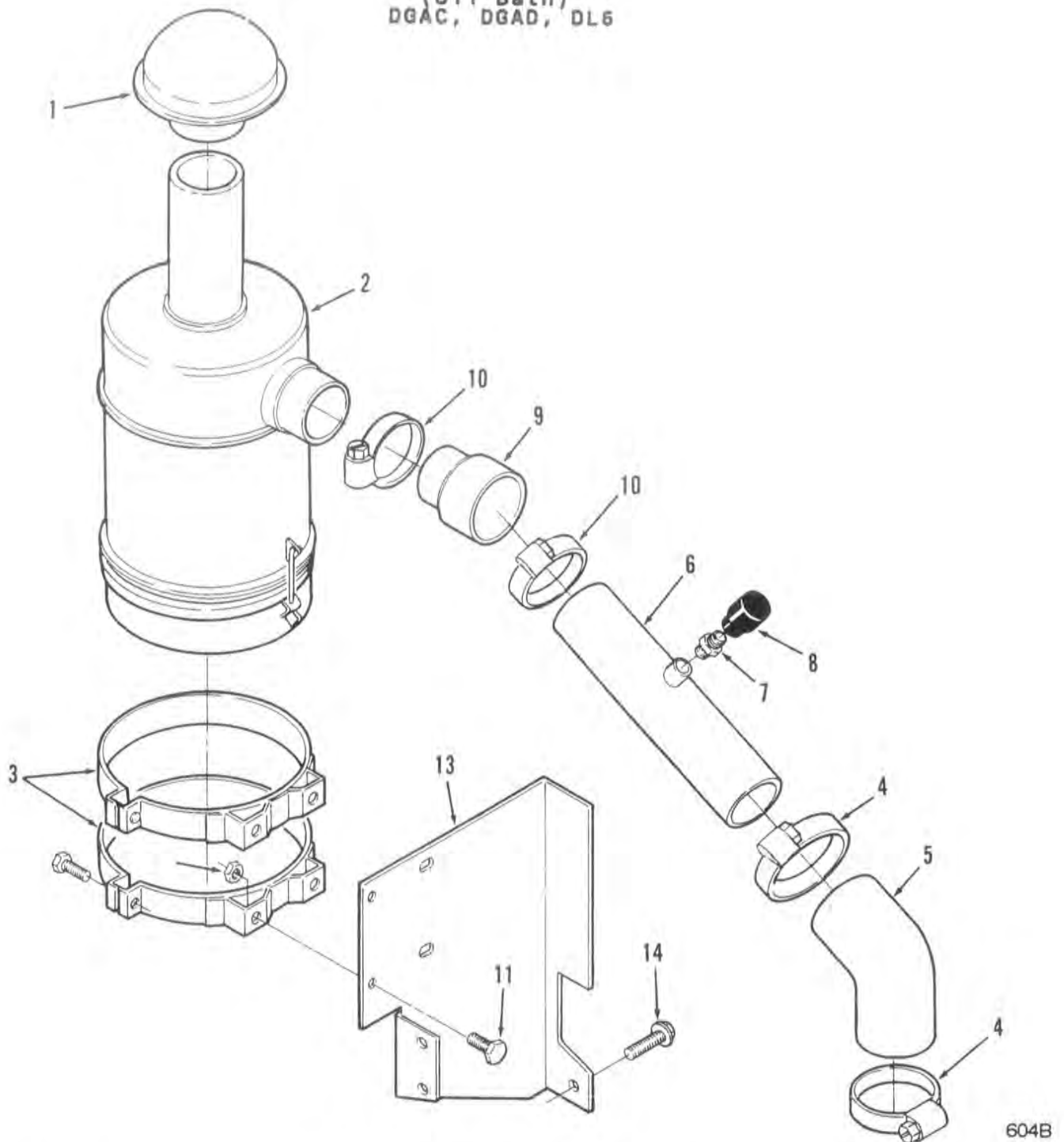
269A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0465	4	Clamp, Hose
2	503-0482	1	Hose, Rubber
3	505-0001	1	Cap, Pipe (1/8")
4	140-1871	1	Tube, Air Inlet
5	140-1864	1	Elbow, Rubber
6	140-1787	1	Cap, Air Cleaner
7	815-0115	2	Screw, Machine - Fillister Head (1/4-20 x 1")
8	863-0002	2	Nut, Square (1/4-20)
9	140-1786	1	Cleaner Assembly, Air (Includes Parts Marked *)
10	140-1437	1	*Clamp, Air Cleaner
11	140-1438	1	*Cap, Air Cleaner
12	140-1439	1	*Baffle, Air Cleaner
13	140-1436	1	*Nut Assembly, Wing
14	140-1204	1	*Element, Air Cleaner

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
16	870-0257	4	Nut, Lock - Hex Washer Head (5/16-18)
17	140-0078	2	Band, Mounting
18	718-1073	1	Screw, Cap - Hex Head (M12 x 25 mm)
19	740-1010	1	Washer, Flat (M12)
20	140-1868	1	Bracket, Mounting
21	140-0961	1	Indicator, Service
22	740-1008	2	Washer, Flat (M10)
23	718-1053	2	Screw, Cap - Hex Head (M10 x 20 mm)

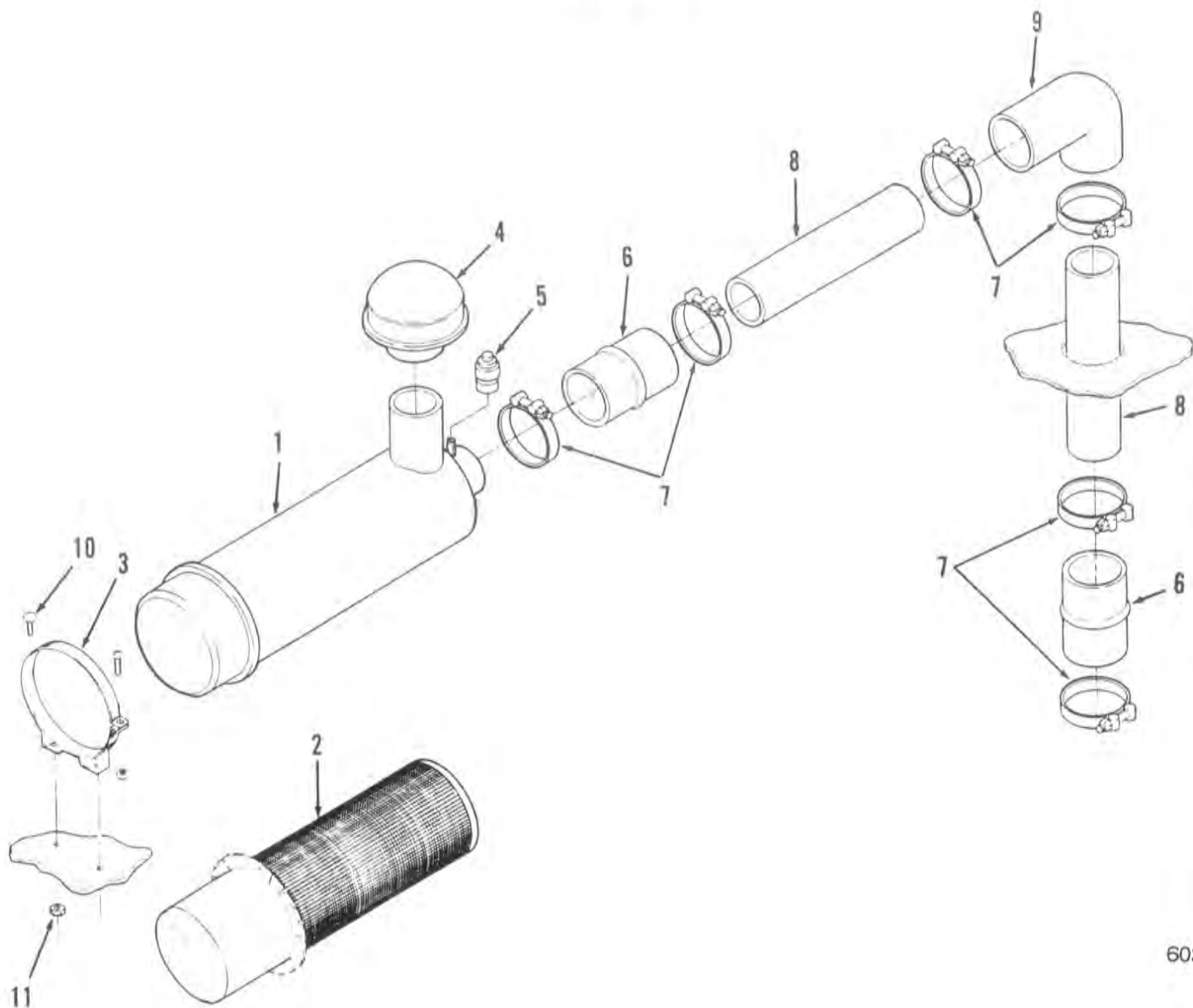
\* - Parts Included in 140-1786 Air Cleaner Assembly

**Air Cleaner  
(Oil Bath)  
DGAC, DGAD, DL6**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1559	1	Hood	10	503-0465	2	Clamp
2	140-2174	1	Cleaner, Air - Oil Bath	11	821-0014	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
3	140-2233	2	Band, Mounting	12	870-0257	4	Nut, Locking - Hex Head (5/16-18)
4	503-1143	2	Clamp	13	140-2235	1	Bracket, Mounting
5	503-1084	1	Elbow, Reducer	14	821-2076	1	Screw, Self-Locking - Hex Washer Head (M12 x 25 mm)
6	140-2234	1	Tube, Air Inlet				
7	140-1260	1	Fitting, Service Indicator				
8	140-1791	1	Indicator Service				
9	503-1074	1	Hose Reducer				

**Air Cleaner  
(Housed Sets)  
DGAC, DGAD, DL6**

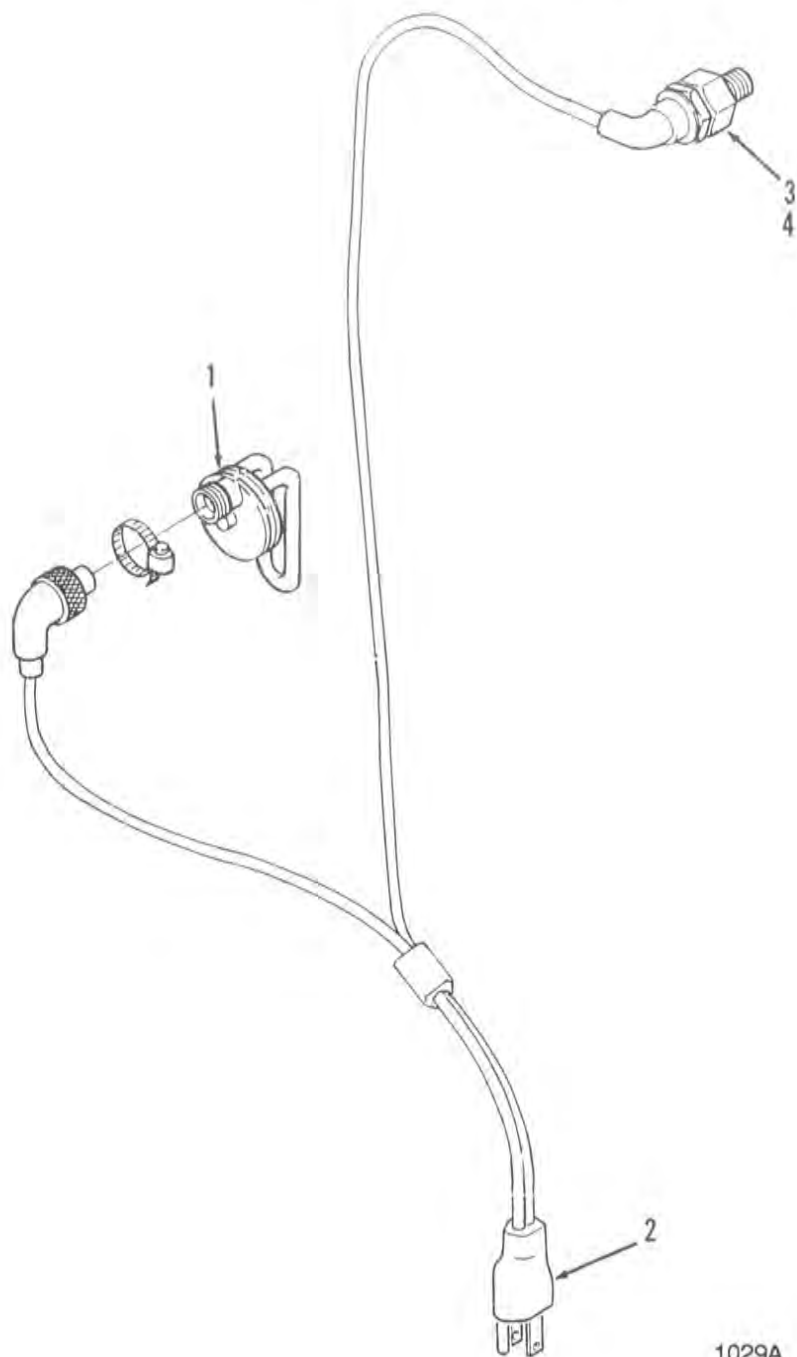


603C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1841	1	Cleaner, Air (Includes Element)
2	140-1851	1	Element
3	140-0722	2	Band, Mounting
4	140-1787	1	Hood, Air Cleaner
5	140-1791	1	Indicator, Service
6	503-0625	2	Hose (2-1/2" ID x 4-1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	503-0867	6	Clamp, T-Bolt
8	140-2267	2	Tube, Air Inlet
9	503-1222	1	Elbow
10	821-0016	4	Screw, Self-Locking - Hex Washer Head (5/16-18 x 3/4")
11	870-0257	4	Nut, Locking - Hex Head (5/16-18)

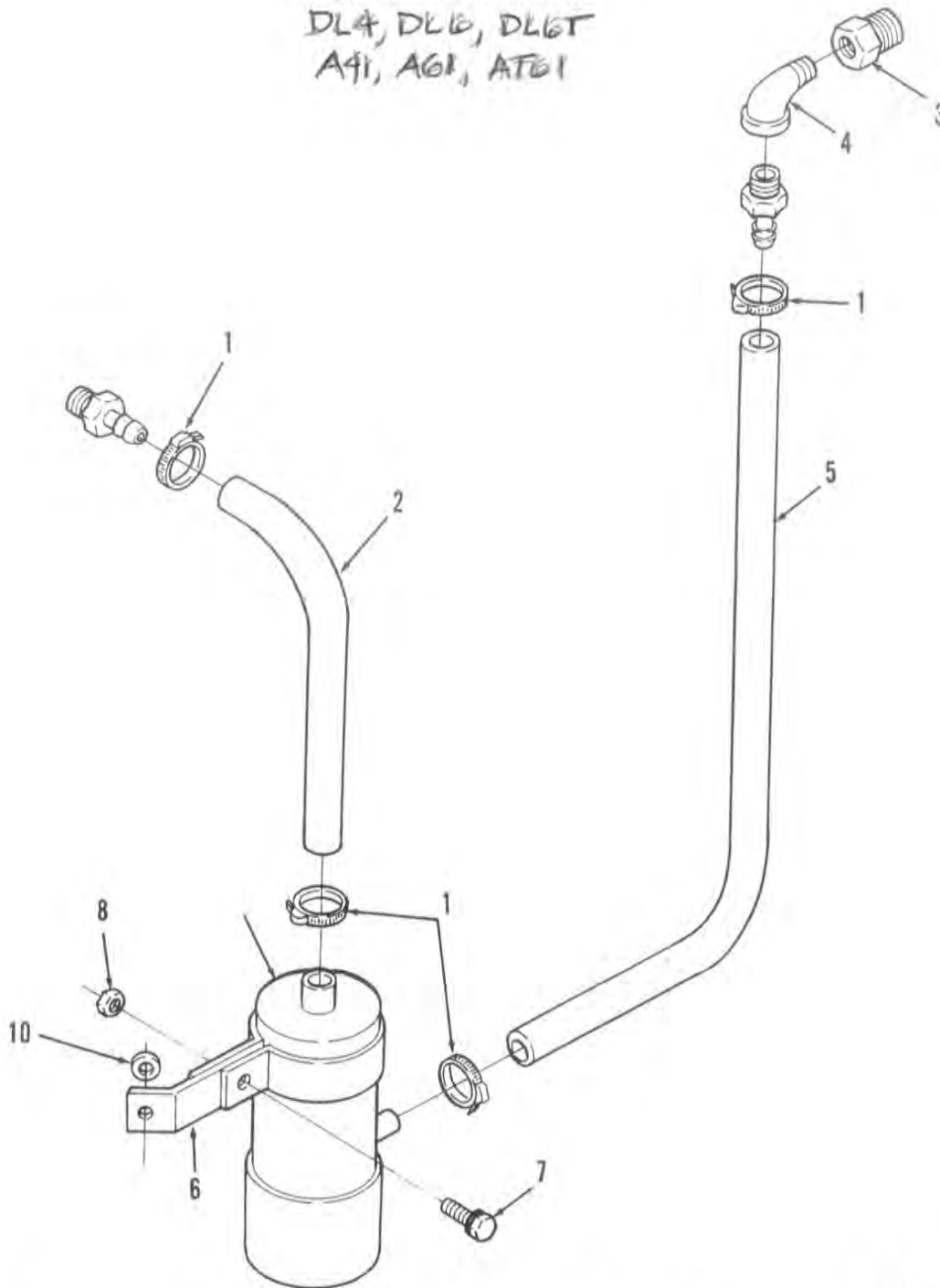
COOLANT HEATER  
DGAB, DGAC, DGAD, DGAE



1029A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0473	1	Heater, Engine (1000 Watt)	3	333-0477	1	Well, Thermostat
	333-0474	1	120 Volt	4	333-0478	1	Thermostate, Engine Heater
2	333-0475	1	240 Volt				
	333-0476	1	Cord, Engine Heater				
			120 Volt				
			240 Volt				

Engine Tank Heater  
DL4, DL6, DL6T  
A41, A61, AT61

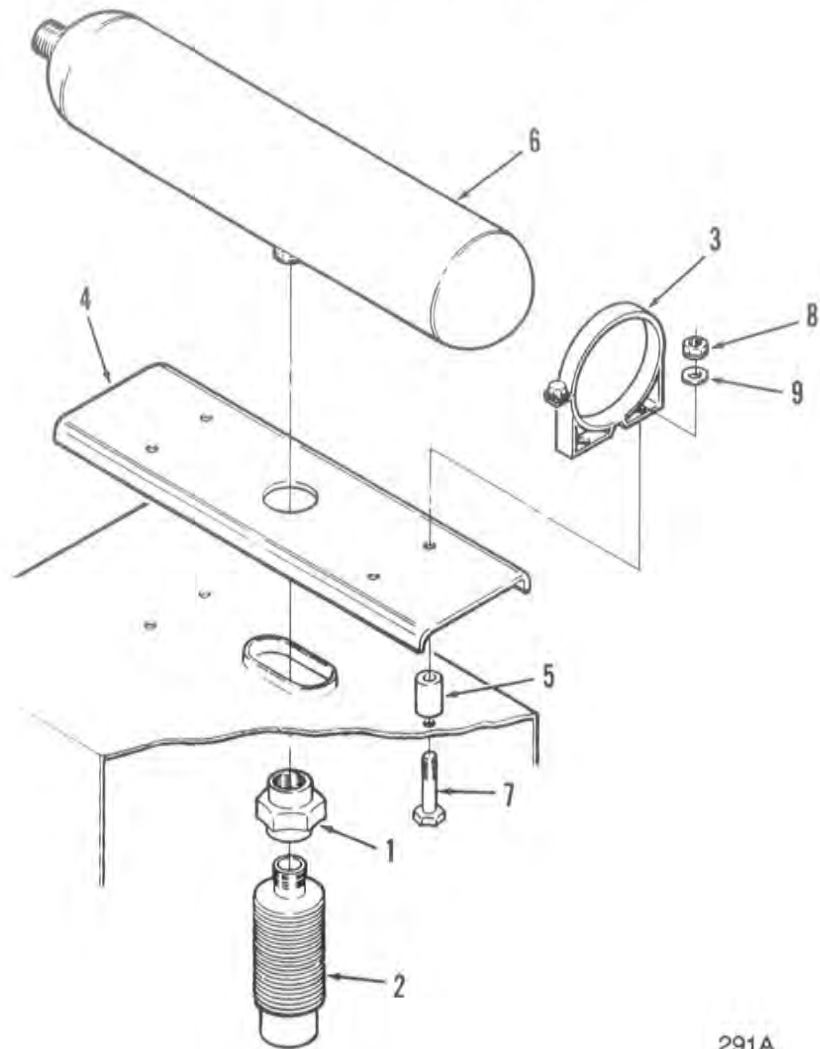


872A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	4	Clamp, Hose (5/8")	9	333-0244-00	1	Heater, Engine
2	503-1429-02	1	Hose, Flex (5/8")				850 Watt, 120 Volt -
	503-1429-01	1	DGAB, DL4, A41		333-0244-02	1	DGAB, DL4, A41
			DGAC, DGAD, DGAE, DL6,				1000 Watt, 240 Volt -
			DL6T, A61, AT61		333-0244-01	1	DGAB, DL4, A41
3	505-0020	1	Bushing, Reducer (3/4 x 1/4")				1500 Watt, 120 Volt -
4	505-0011	1	Elbow, Street (1/4 NPT)				DGAC, DGAD, DGAE, DL6,
5	503-1429-05	1	Hose, Flex (5/8" x 36")				DL6T, A61, AT61
6	130-0755	1	Bracket, Mounting		333-0244-03	1	1500 Watt, 230 Volt -
7	821-0016	1	Screw, Self-Locking - Hex				DGAC, DGAD, DGAE, DL6
			Washer Head (5/6-18 x 3/4")				DL6T, A61, AT61
8	870-0257	1	Nut, Self-Locking - Hex	10	856-0006	1	Washer, EIT (1/4")
			Washer Head (5/16-18)				



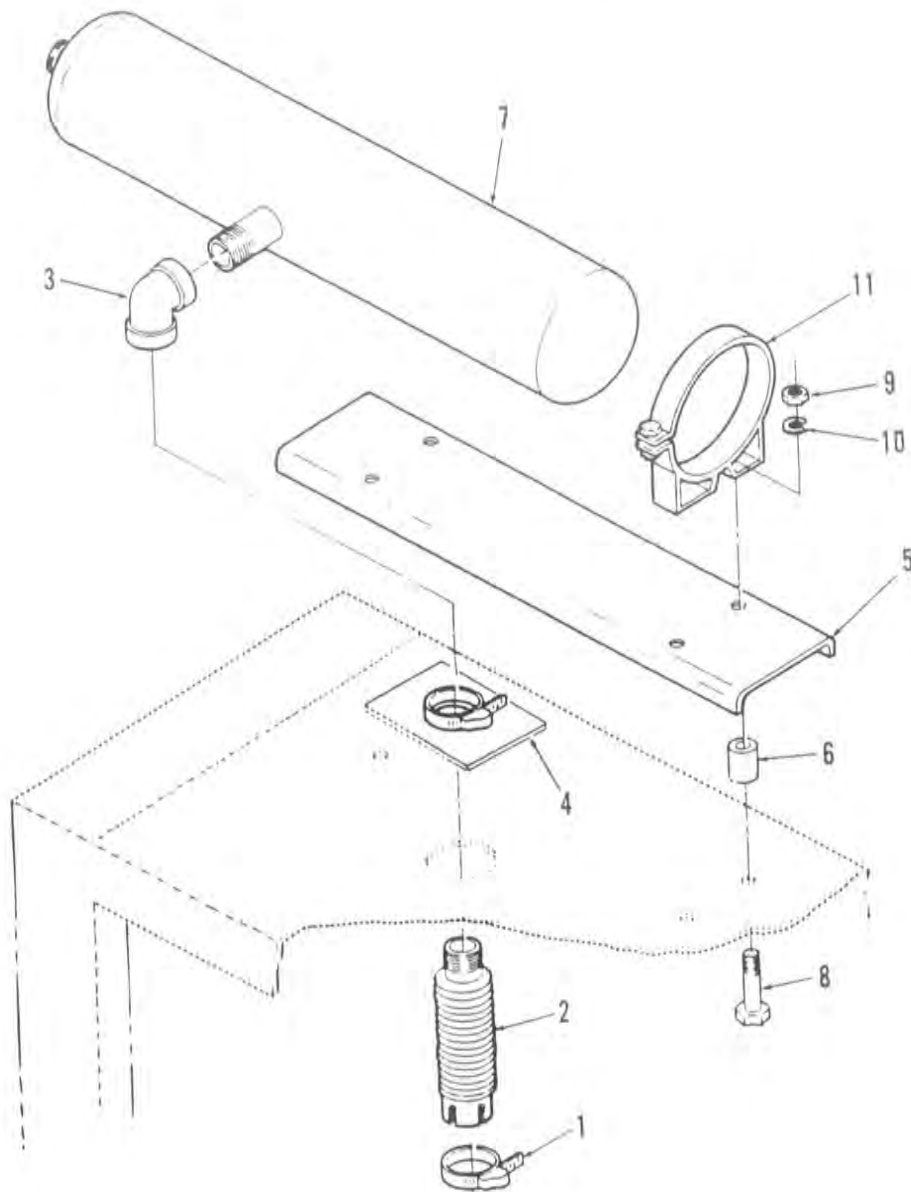
**Muffler  
(Housed Set)**  
DGAB, DGAC, DGAD, DL4, DL6, A41, A61



291A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0454	1	Union, Pipe (2" NPT)	7	800-0036	6	Screw, Cap - Hex Head (5/16-18 x 2-3/4")
2	155-1936	1	Tube, Exhaust - Flexible	8	870-0257	4	Nut, Self-Locking - Hex Washer Head (5/16-18)
3	140-0752	2	Band, Mounting	9	526-2123	4	Washer, Flat (#10)
4	155-1931	1	Shield, Heat				
5	155-1430	4	Spacer				
6	155-1614	1	Muffler, Exhaust				

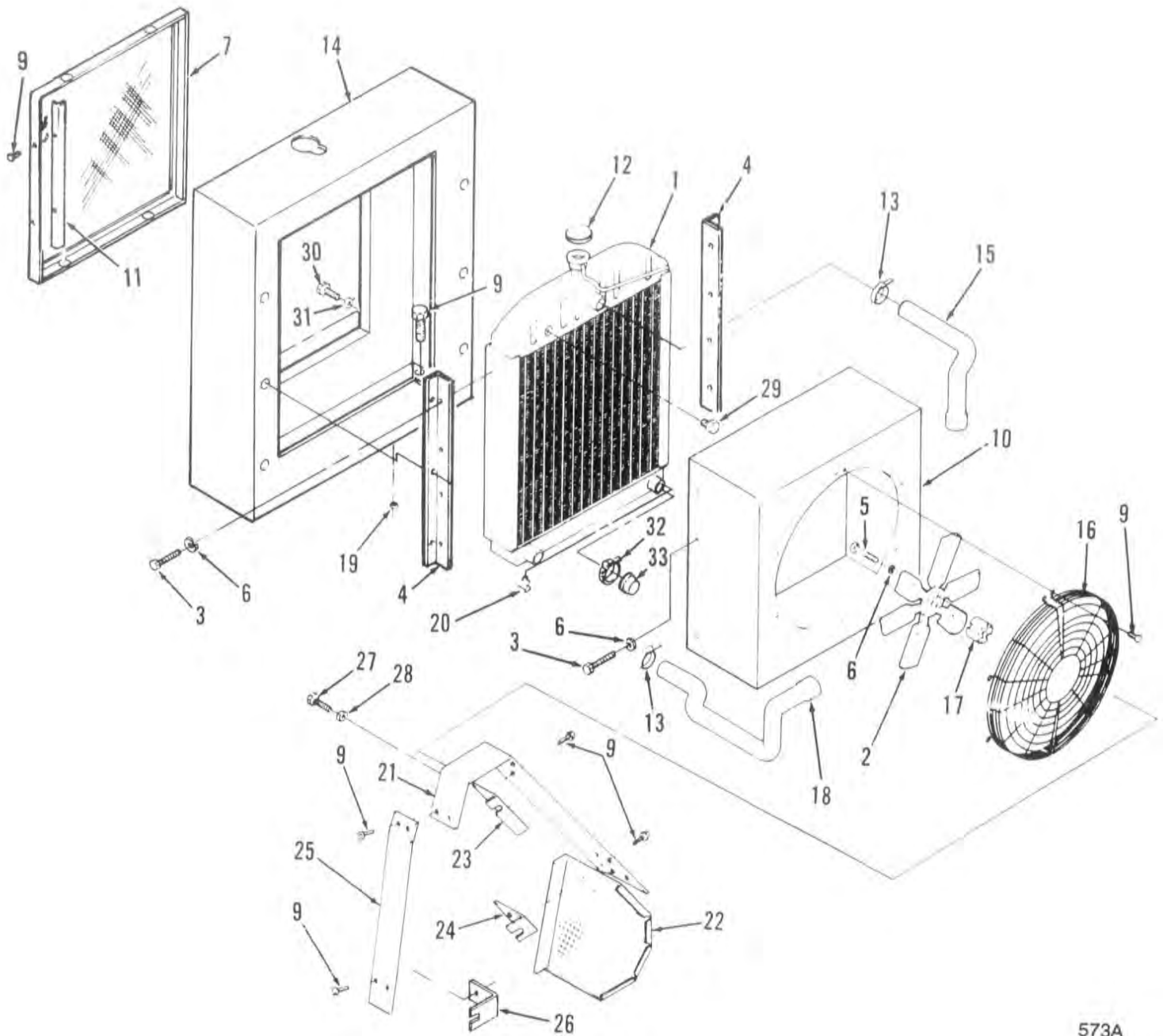
Muffler  
(Housed Set)  
DGAE, DL6T, AT61



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0998	1	Clamp, Hose	8	800-0036	4	Screw, Cap - Hex Head (5/16-18 x 2-3/4")
2	155-1998	1	Tube, Exhaust - Flexible	9	870-0048	4	Nut, hex - Self-Locking (5/16-18)
3	505-0044	1	Elbow, Pipe - 90° (2-1/2")	10	526-2123	4	Washer, Flat (M10)
4	155-2020	1	Shield, Rain	11	140-0649	2	Band, Mounting
5	155-1995	1	Shield, Heat				
6	155-1430	4	Spacer				
7	155-1994	1	Muffler, Exhaust				



# Cooling System

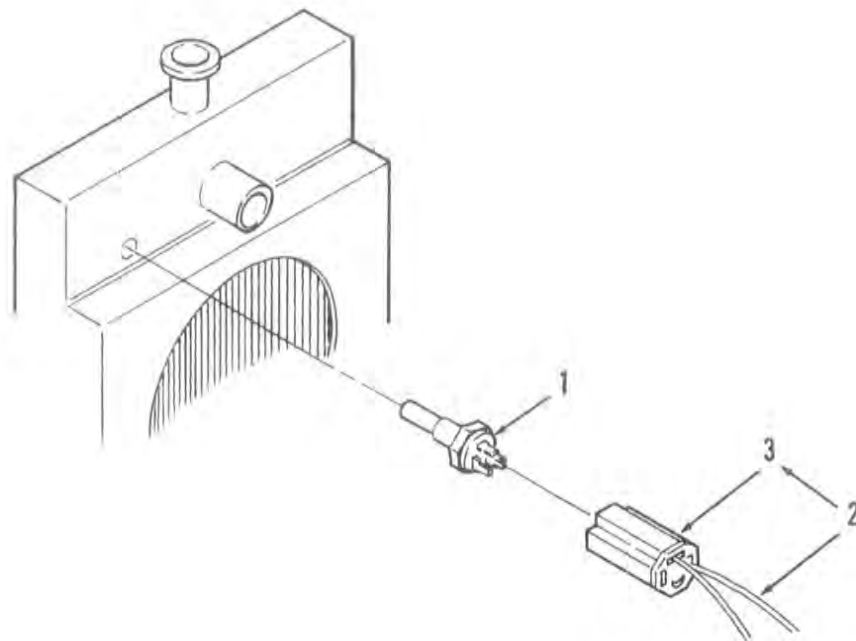


573A

## Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Radiator	15			Hose, Upper - Radiator
	130-1817	1	DGAB, DL4, A41		503-1179	1	DGAB, DL4, A41
	130-1818	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61		503-1177	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61
2			Fan	16			Guard, Fan
	130-2148	1	DGAB, DL4, A41		130-2159	1	DGAB, DL4, A41
	130-1922	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61		130-2160	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61
3	718-1032	16	Screw, Cap - Hex Head (M8 x 10)	17	130-1873	1	Spacer, Fan
4			Bracket, Mounting - Radiator	18			Hose, Lower - Radiator
	130-2156	1	DGAB, DL4, A41		503-1178	1	DGAB, DL4, A41
	130-2154	2	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61		503-1070	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61
5	718-1047	4	Screw, Cap - Hex Head (M8 x 75)	19	870-0212	5	Nut, Lock (1/4-20)
6	850-2008	20	Washer, Spring-Lock (M8)	20	504-0003	1	Valve, Drain
7	130-2150	1	Guard, Radiator	21	191-1540	1	Guard, Belt - Alternator
8	130-2155	1	Bracket, Mounting - Radiator	22	191-1539	1	Guard, Belt - Alternator
			DGAB, DL4, A41	23	191-1542	1	Bracket, Guard - Belt
9	821-0010	35	Screw, Cap - Hex Head (1/4-20 x 1/2")	24	191-1543	1	Bracket, Guard - Belt
10			Shroud	25	191-1546	1	Guard, Belt - Alternator
	130-2157	1	DGAB, DL4, A41	26	191-1547	1	Bracket, Belt Guard - Alternator
	130-2158	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61	27	718-1035	1	Screw, Hex Head - Machine (M8 x 16)
11	130-2152	2	Baffler, Radiator - DGAB, DL4, A41	28	526-2100	1	Washer, Flat (M8)
12	130-1928	1	Cap, Pressure	29	502-0153	1	Plug, Hex Head (1/4")
13	503-0365	4	Clamp, Hose	30	800-0003	6	Screw, Hex Head - Cap (1/4-20 x 1/2")
14	405-3809	1	Housing, Front	31	526-0021	6	Washer, Flat (1/4")
				32	503-0429	1	Clamp, Hose
				33	517-0263	1	Cap, Lower Hose Fitting - Radiator

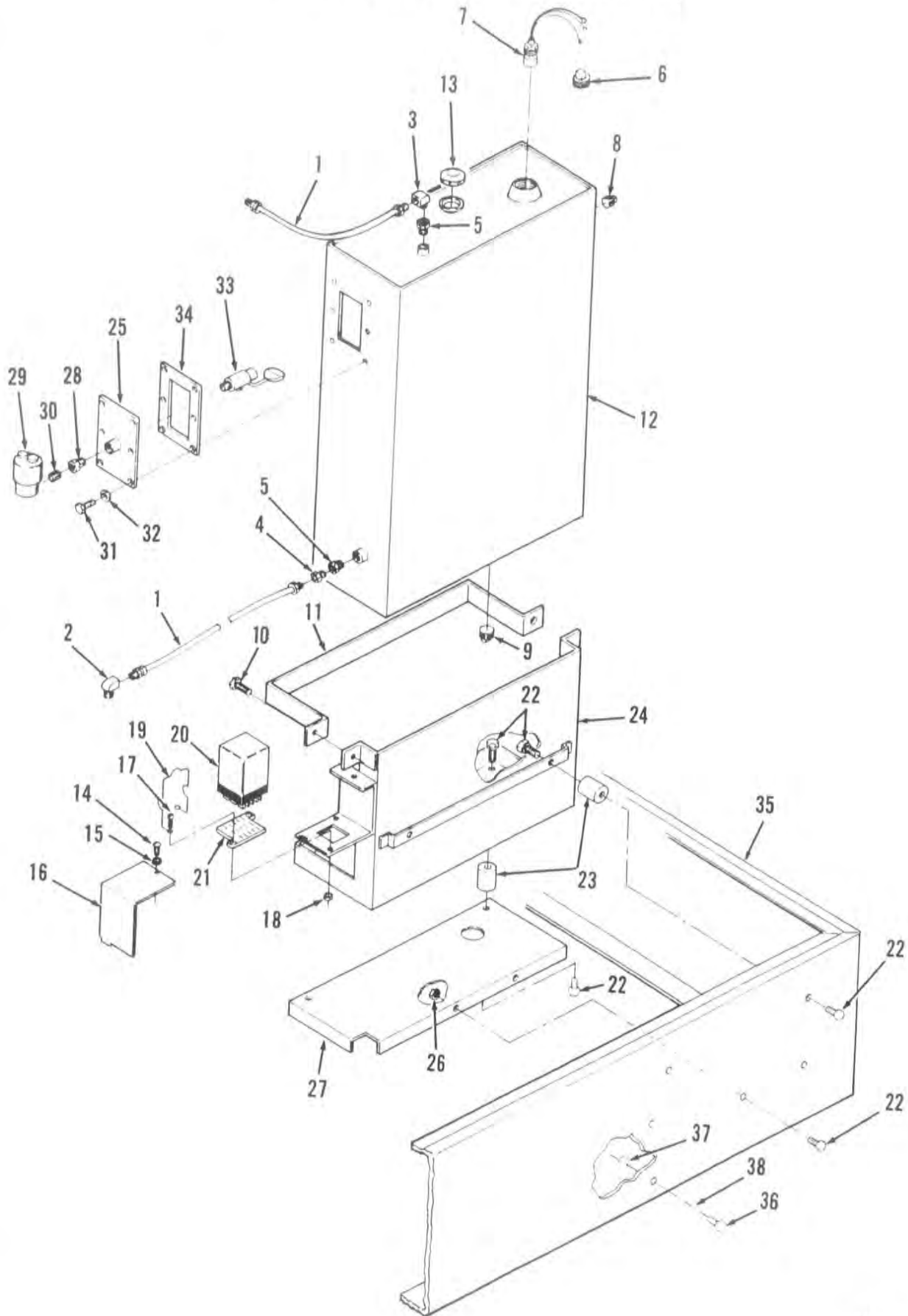
# Low Coolant Level Switch



198A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0322	1	Switch - Coolant Level (S7)	2	338-1691	1	Harness, Wiring (Includes Housing)
	193-0434	1	Standard	3	323-1236	1	Housing, Connector
			With 12 Second Delay				

# Day Tank (Overhead Fuel Supply Application)



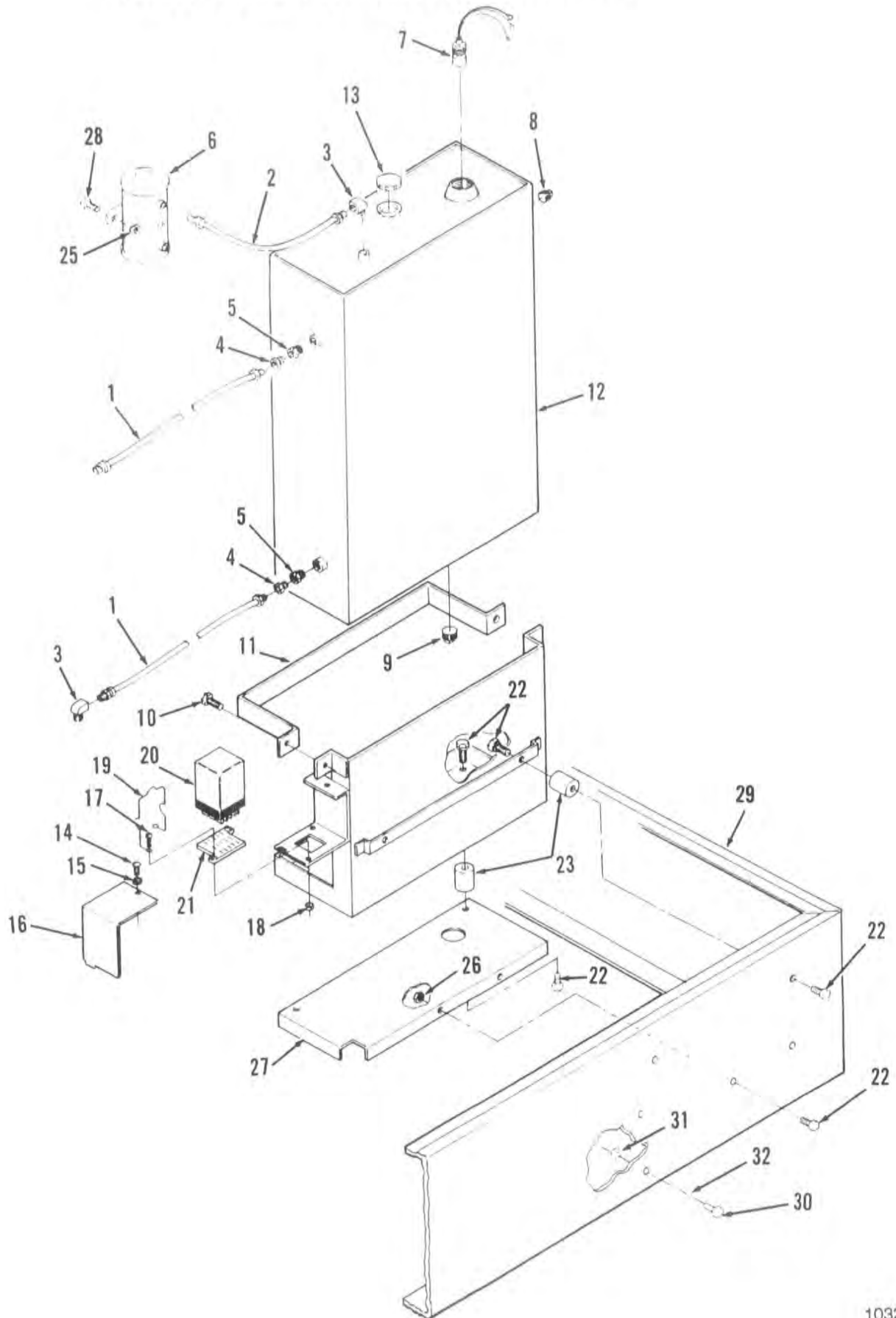
1031A

**Day Tank**  
**(Overhead Fuel Supply Application)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0027	2	Line, Fuel - Flexible (1/8 NPT Male x 1/4 SAE Male Swivel x 48" Lg)	19	307-1157	1	Spring, Holddown - Relay
2	502-0041	1	Elbow, Inverted Male - 90° (1/4")	20	307-1058	1	Relay (12 VDC)
3	502-0020	1	Elbow, Pipe - Street, 90° Brass (1/8")	21	323-0765	1	Socket, Relay
4	502-0003	1	Connector, Inverted Male (1/8")	22	821-0014	10	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
5	505-0007	2	Bushing, Reducer - Hex (1/4 NPT Male x 1/8 NPT Female)	23	402-0078	4	Mounting, Vibration
6	505-1050	1	Plug, Switch - Mounting	24	159-1120	1	Bracket, Mounting - Fuel Tank
7	415-0466	1	Switch, Float - Liquid Level	25	415-0516	1	Plate, Cover - Access
8	505-0054	1	Plug, Pipe - Square Head (1/4 NPT)	26	870-0048	2	Nut, Self-locking - Hex Washer Head (5/16-18)
9	505-0110	1	Plug, Pipe - Square Head (3/8 NPT)	27	159-1122	1	Plate, Support - Fuel Tank
10	821-0013	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1")	28	505-0016	1	Bushing, Reducer (3/8" to 1/8")
11	415-0451	1	Strap, Retaining - Tank	29	307-0565	1	Solenoid - 12 VDC
12	415-0543	1	Tank, Fuel - Day (Includes Cap) (3-1/2 Gallons)	30	505-0098	1	Nipple, Pipe - Close (1/8" NPT x 3/4")
13	159-0007	1	Cap - Fuel Tank	31	800-0002	6	Screw, Cap - Hex Head (1/4-20 x 3/8")
14	813-0098	1	Screw, Machine - Round Head (#10-32 x 3/8")	32	526-0063	6	Washer, Flat - Copper (17/64" ID x 7/16 OD x 1/32" Thk)
15	850-0030	1	Washer, Lock - Spring (#10)	33	309-0410	1	Valve, Float
16	415-0326	1	Cover, Access - Relay	34	415-0467	1	Gasket - Access Plate
17	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")	35			Base, Rear Mounting - Unhoused Sets
18	870-1183	2	Nut, Self-locking - Hex with ET (#6-32)		403-2063	1	DGAB
					403-2064	1	DGAC, DGAD, DGAE
				36	800-0090	6	Screw, Cap - Hex Head (1/2-13 x 1")
				37	862-0016	6	Nut, Hex (1/2-13)
				38	850-0060	6	Washer, Lock - Spring (1/2")



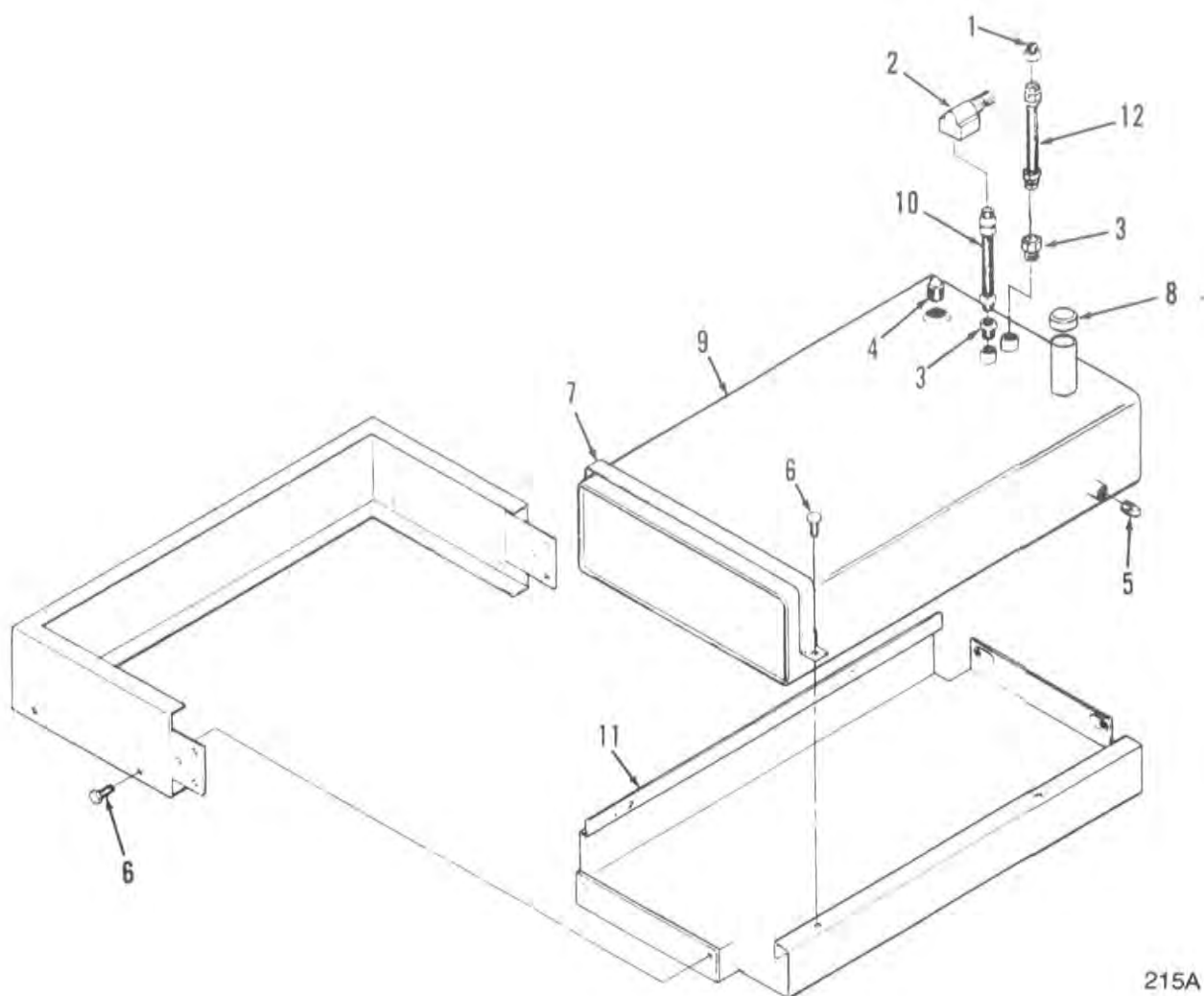
# **Day Tank (Underground Fuel Supply Application)**



**Day Tank  
(Underground Fuel Supply Application)**

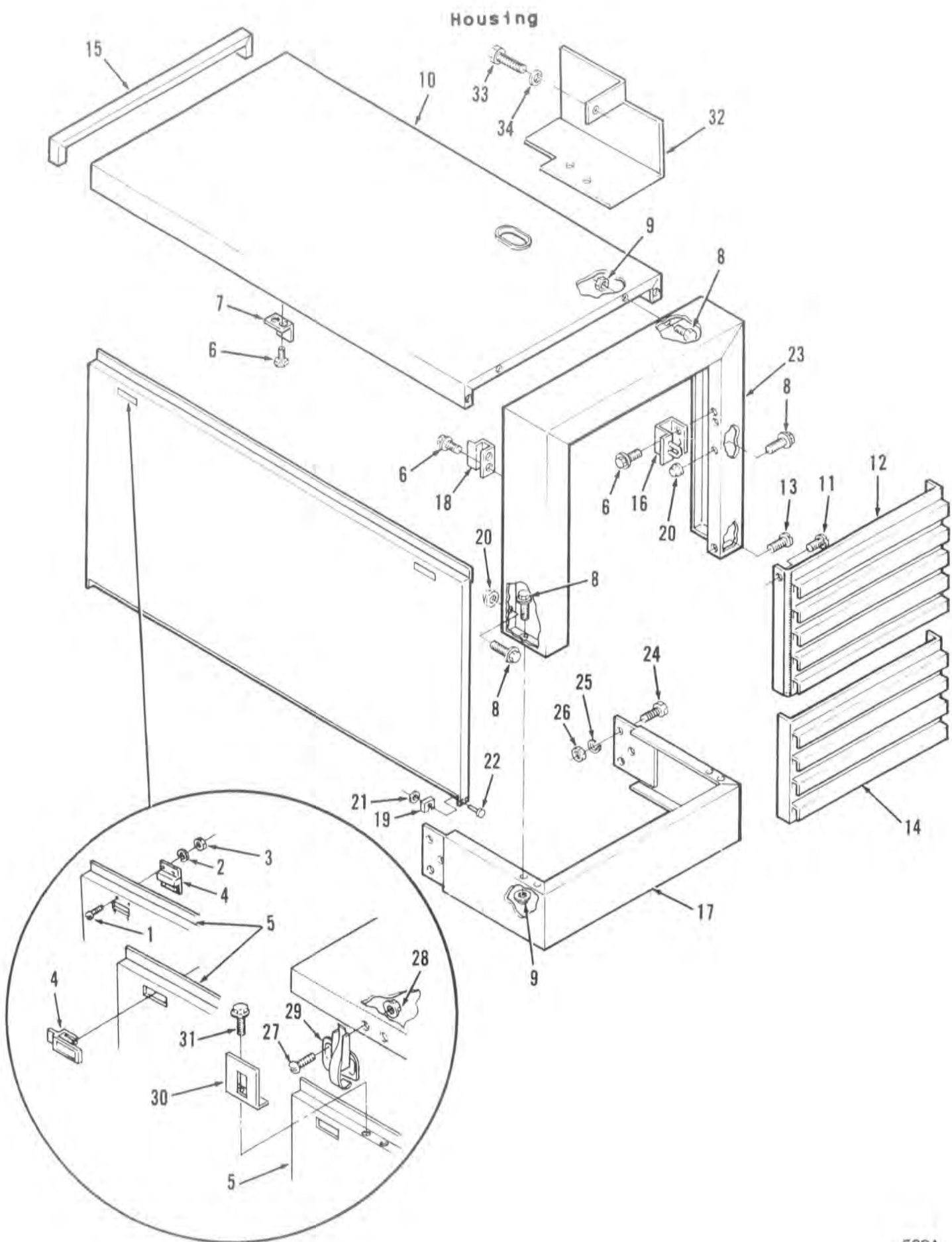
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0027	2	Line, Fuel - Flexible (1/8 NPT Male x 1/4 SAE Male Swivel x 48" Lg)	15	850-0030	1	Washer, Lock - Spring (#10)
2	501-0007	1	Line, Fuel - Flexible (1/8 NPT Male x 1/4 SAE Male Swivel x 24" Lg)	16	415-0326	1	Cover, Access - Relay
3	502-0041	2	Elbow, Pipe - Street, 90° Brass-Inverted Male (1/4 NPT)	17	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
4	502-0003	2	Connector, Inverted Male (1/8")	18	870-1183	2	Nut, Self-Locking Hex - with ET (#6-32)
5	505-0007	2	Bushing, Reducer - Hex (1/4 NPT Male x 1/8 NPT Female)	19	307-1157	1	Spring, Holddown - Relay
6	149-1828	1	Pump, Fuel (12 VDC)	20	307-1058	1	Relay (12 VDC)
7	415-0321	1	Switch, Float - Liquid Level (Includes Mounting Plug)	21	323-0765	1	Socket, Relay
8	505-0054	1	Plug, Pipe - Square Head (1/4 NPT)	22	821-0014	10	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")
9	505-0110	1	Plug, Pipe - Square Head (3/8 NPT)	23	402-0078	4	Mounting, Vibration
10	821-0013	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1")	24	159-1120	1	Bracket, Mounting - Fuel Tank
11	415-0451	1	Strap, Retaining - Tank	25	870-0212	2	Nut, Self-Locking - Hex Washer Head (1/4-20)
12	415-0445	1	Tank, Fuel - Day (Includes Cap) (3-1/2 Gallons)	26	870-0048	2	Nut, Self-Locking - Hex Washer Head (5/16-18)
13	159-0007	1	Cap - Fuel Tank	27	159-1122	1	Plate, Support - Fuel Tank
14	813-0098	1	Screw, Machine - Round Head (#10-32 x 3/8")	28	821-0018	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 5/8")
				29			Base, Rear Mounting - Unhoused Sets
					403-2063	1	DGAB
					403-2064	1	DGAC, DGAD, DGAE
				30	800-0090	6	Screw, Cap - Hex Head (1/2-13 x 1")
				31	862-0016	6	Nut, Hex (1/2-13)
				32	850-0060	6	Washer, Spring - Lock (1/2")

# Fuel Tank (Skid Mounted)



215A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0003	1	Adapter, Pipe - Hex (5/16-24 x 1/8 NPT)	6	821-0010	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
2	502-0041	1	Elbow, pipe - Street, 90° (5/16-24 Female x 1/4 NPT)	7	159-1126	2	Strap, Retaining - Fuel Tank
3	505-0007	2	Bushing, Reducer - Hex (1/4 x 1/8 NPT)	8	159-0007	1	Cap - Fuel Tank
4	505-0949	1	Plug, Pipe - Square Head (1-1/4 NPT)	9	159-1123	1	Tank, Fuel (8-1/2 Gallon)
5	505-0054	1	Plug, Pipe - Square Head (1/4 NPT)	10	501-0027	1	Line, Fuel (48")
				11	159-1124	1	Tray, Mounting - Fuel Tank
				12	501-0094	1	Line, Fuel (60")

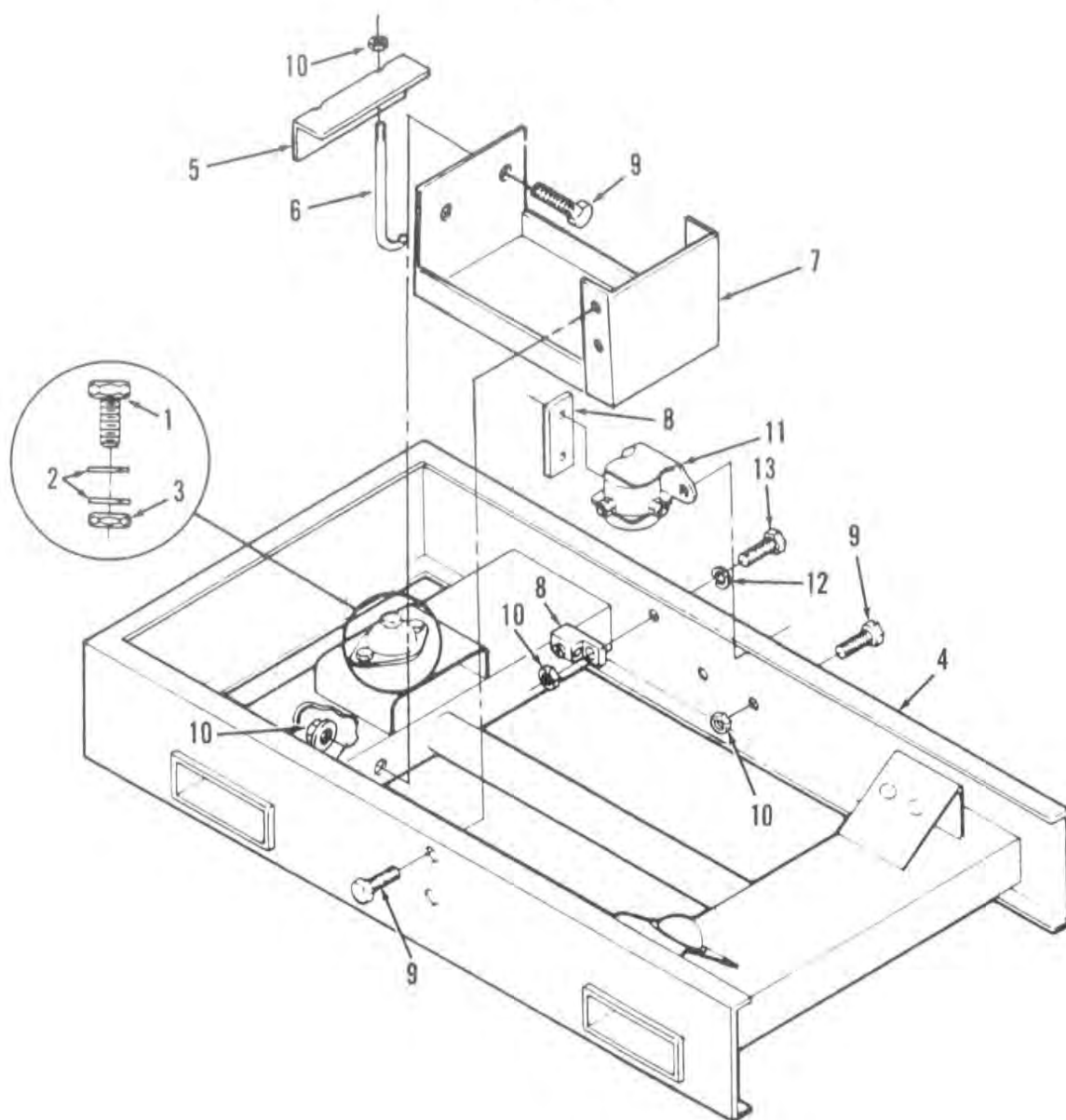


# Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	812-0148	16	Screw, RHM (1/4-20 x 1/2")	18	406-0493	4	Catch, Door
2	850-0040	16	Washer, Spring - Lock (1/4")	19			Clip, Door
3	862-0001	16	Nut, Hex (1/4-20)		405-1872	6	Doors with Hasps
4			Latch, Door		405-1872	4	Doors without Hasps
	406-0369	4	*Spec C Through Early Spec D (with Mounting Holes)	20	870-0258	6	Nut, Weld (1/4-20)
				21	526-0003	12	Washer, Flat (#8)
	406-0561	4	*Use Began During Spec D (without Mounting Holes)	22	818-0150	12	Rivet
5			Door, Engine	23			Panel, Rear
	405-2823	2	*Spec C Through Early Spec D (with Latch Mounting Holes)		405-3069	1	DGAB, DL4, A41
					405-3070	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61
	405-3306	2	*Use Began During Spec D - Doors without Hasps (without Latch Mounting Holes)	24	800-0090	6	Screw, Cap - Hex Head (1/2-13 x 1")
				25	850-0060	6	Washer, Spring-Lock (1/2")
	405-3866	2	*Use Began During Spec D - Doors with Hasps (without Latch Mounting Holes)	26	862-0016	6	Nut, Hex (1/2-13)
6	821-0005	19	Screw, Self-Locking (#10-32 x 1/2")	27	813-0100	16	#Screw, Machine - Round Head (#10-32 x 1/2")
7	406-0490	2	Latch, Door	28	870-0131	20	#Nut, Hex - with ET Washer (#10-32)
8	821-0010	22	Screw, Self-Locking (1/4-20 x 1/2")	29	406-0105	8	#Hasp, Door
9	870-0212	16	Nut, Self-Locking (1/4-20)	30	405-3867	8	#Bracket, Hasp
10	405-3060	1	Panel, Top	31	821-0015	16	#Screw, Self-locking (1/4-20 x 3/4")
11	813-0098	3	Screw, RHM (#10-32 x 3/8")	32	155-2053	1	Shield, Heat - DGAE, DL6T, AT61
12	405-2677	1	Cover, Control	33	800-2057	3	Screw, Cap - Hex Head (MB x 1.25 x 20)
13	812-0148	4	Screw, RHM (1/4-20 x 1/2")				DGAE, DL6T, AT61
14	405-3082	1	Grille	34	850-0045	3	Washer, Lock-Spring - (5/16") DGAE, DL6T, AT61
15	895-0195		Stripping, Weather - Bulk (Order by the Foot)				
			5 Feet Required				
16	406-0491	1	Latch, Cover				
17			Skid, Rear				
	403-2063	1	DGAB, DL4, A41				
	403-2064	1	DGAC, DGAD, DGAE, DL6, DL6T, A61, AT61				

\* - Latches and Doors with Mounting Holes are not Interchangeable with Latches and Doors without Mounting Holes.  
# - Parts used on Doors with Hasps.

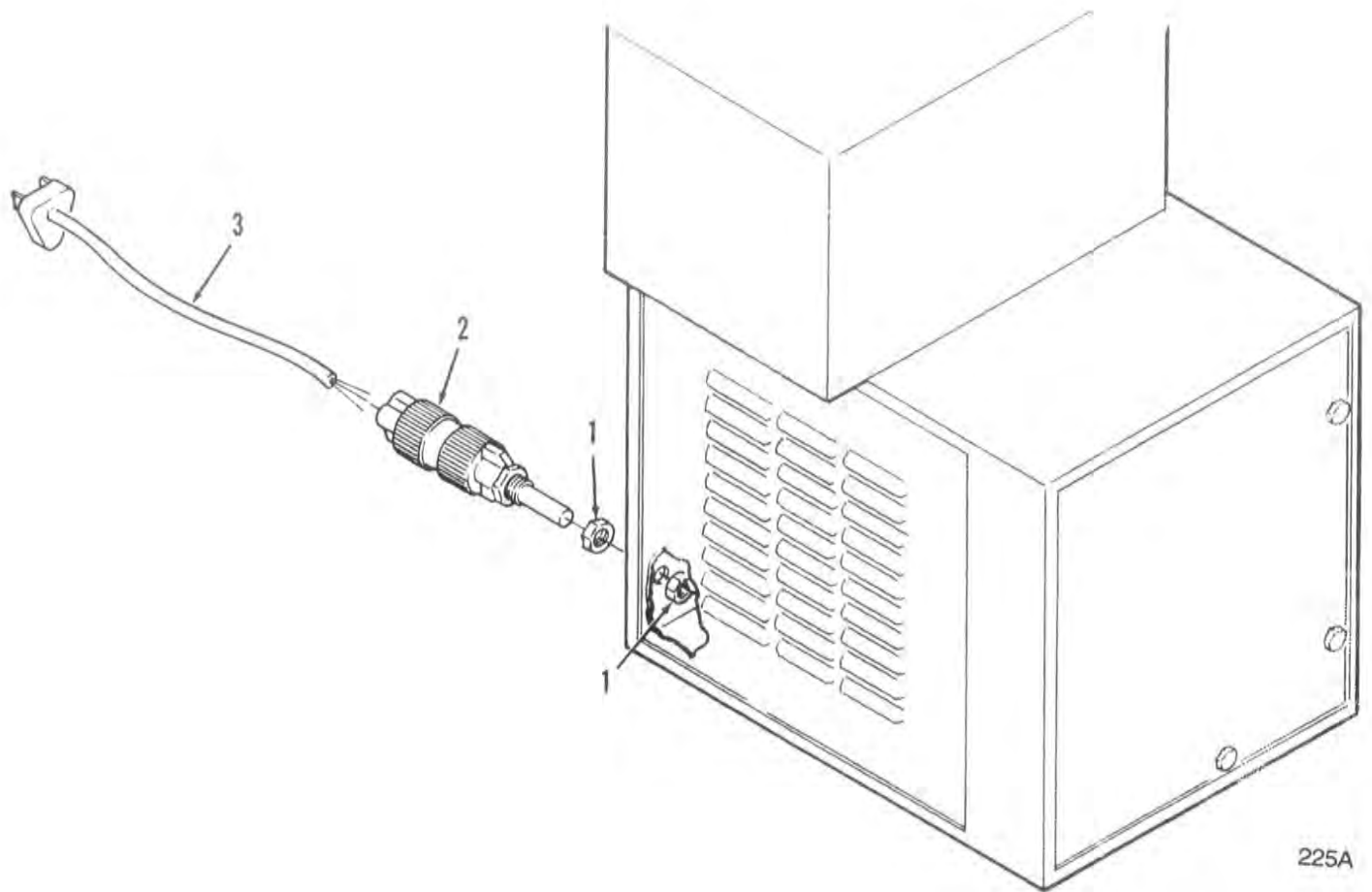
# Chassis



1030A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0090	2	Screw, Cap - Hex Head	8	332-1473	1	Lug, Solderless
	800-0091	4	Front Mount (1/2-13 x 1")	9	821-0010	6	Screw, Self-Locking (1/4-20 x 1/2")
2	850-0060	6	Rear Mount (1/2-13 x 1-1/4")	10	870-0212	7	Nut, Self-Locking (1/4-20)
3	862-0016	4	Washer, Lock-Spring (1/2")	11	307-1031	1	Relay, Solenoid
4			Nut, Hex (1/2-13)		307-1166	1	Pre-heat (K2)
	403-2052	1	Skid		307-1166	1	Start (K1) - DL4, DL6
	403-2053	1	DGAB, DL4, A41		307-1166	1	Spec C-D
			DGAC, DGAD, DGAE, DL6, DL6T		307-1166	1	Start (K1) - DL6T Spec A
			A61, AT61		307-1166	1	Spec C-D
5	416-0812	1	Bracket, Holddown - Battery	12	856-0006	1	Washer, Lock - EIT (1/4")
6	416-0813	2	Rod, Holddown	13	821-0013	1	Screw, Self-Locking (1/4-20 x 1")
7	416-0821	1	Tray, Battery				

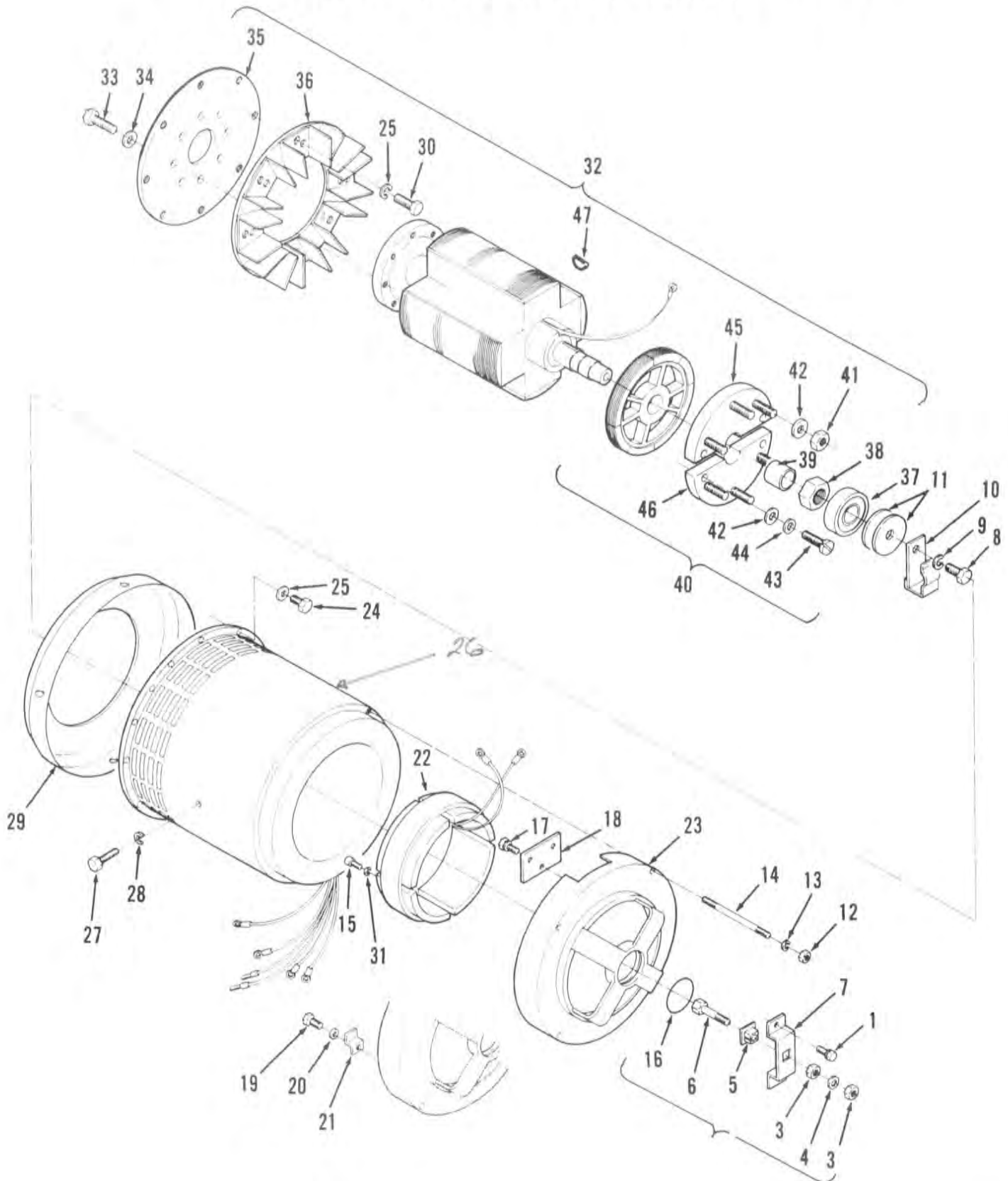
# Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special
2	333-0157	1	Heater, Electrical

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	333-0228	1	Cord, Heater (6')

Generator  
 (16.0DGAB, 16.0DL4, 16.0A41, 20.0DGAB, 20.0DL4, 20.0A41,  
 20.0DGAC, 20.0DL6, 20.0A61, 25.0DGAC, 25.0DGAD, 25.0DL6,  
 25A61, 30.0DGAD, 30.0DL6, 30.0A61)





**Generator**  
**(16.0DGAB, 16.0DL4, 16.0A41, 20.0DGAB, 20.0DL4, 20.0A41,**  
**20.0DGAC, 20.0DL6, 20.0A61, 25.0DGAC, 25.0DGAD, 25.0DL6,**  
**25A61, 30.0DGAD, 30.0DL6, 30.0A61)**

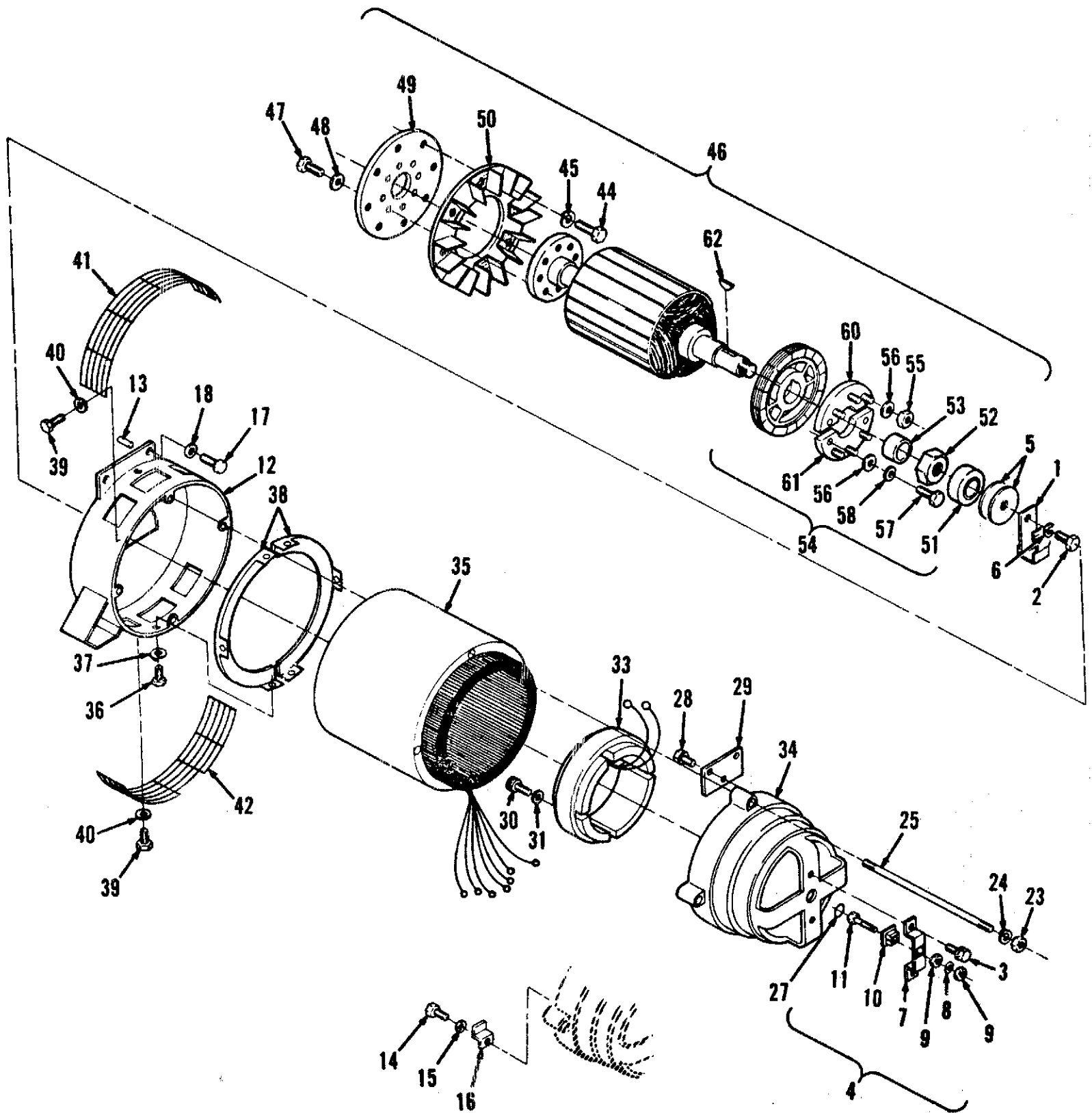
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")	27	718-1019	4	Screw, Cap - Hex Head (M6 x 14 mm)
2	150-1446	1	Bracket and Point Assembly (Includes Parts Marked #)	28	850-2006	4	Washer, Lock - Spring (M6)
3	862-0001	2	*Nut, Hex (1/4-20)	29	232-2845	1	Baffle, Air
4	853-0013	1	*Washer, Lock - ET (1/4")	30	800-2085	8	Screw, Cap - Hex Head (M10 x 20 mm)
5	870-0250	1	*Nut, Insulating	31	850-0040	4	Washer, Lock - Spring (1/4)
6	150-0723	1	*Point, Contact	32		1	Rotor Assembly, Generator (Includes Parts Marked *)
7	150-1445	1	*Bracket, Mounting				32.0DGAE, 32DL6T, 32AT61
8	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")		201-3059	1	Standard
9	865-0010	1	Washer, Lock - EIT (3/8")		201-3207	1	Environmentally Protected
10	150-0717	1	Switch, Overspeed				40.0DGAE, 40.0DL6T, 40AT61
11	526-0077	2	Washer, Flat (3/8")		201-3059	1	Standard
12	862-0003	4	Nut, Hex (3/8-16)		201-3059	1	347/600, 3 Phase, 4 Wire
13	850-0050	4	Washer, Lock - Spring (3/8")			1	Reconnectable, 3 Phase, 12 Wire
14			Stud		201-3207	1	Environmentally Protected
	520-0055	4	3/8-16 x 4"	33	805-0025	8	*Bolt, Hex Head - Slotted, Grade 8 (7/16-14 x 3/4")
	520-0966	4	3/8-16 x 5.2"	34	526-0249	8	*Washer, Flat - Hardened (15/32" ID x 1" OD x 1/8" Thk)
15	802-0040	4	Screw, Cap - Socket Head (1/4-20 x 2")	35	232-2843	1	*Disk, Drive
16	509-0094	1	Seal, "O" Ring	36	205-0132	1	*Fan, Generator
17	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 3/8")	37	510-0112	1	*Bearing, Ball
18	232-2418	1	Board, Terminal	38	870-0284	1	*Nut, Self-Locking Hex (1-1/8-12)
19	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8") Exciter Stator Mounting (Early Models)	39	232-2398	1	*Spacer, Bearing
				40			*Rotor, Assembly, Exciter (Includes Parts Marked +)
20	853-0013	4	Washer, Lock - ET (1/4) Exciter Stator Mounting (Early Models)		201-2152	1	Standard
21	232-2584	4	Clip, Retaining - Exciter Stator Mounting (Early Models)		201-2298	1	Environmentally Protected
22			Stator, Excitor	41	870-0131	8	+Nut, Self-Locking - Hex with ET Lockwasher (#10-32)
	220-2010	1	Standard	42	526-0008	12	+Washer, Flat (#10)
	220-2309	1	Environmentally Protected	43	813-0100	4	+Screw, Machine - Round Head (#10-32 x 1/2")
23	211-0349	1	Bell, End	44	853-0008	4	+Washer, Lock - ET (#10)
24	800-2087	12	Screw, Cap - Hex Head (M10 x 30 mm)	45	358-0069	1	+Rectifier Assembly, Positive
25	850-2010	20	Washer, Lock - Spring (M10)	46	358-0070	1	+Rectifier Assembly, Negative
26			Stator Assembly, Generator (Includes Air Baffle)	47	515-0094	1	+Key - Excitor Stator
			32.0DGAE, 32DL6T, 32AT61				
	220-3810	1	Standard				
	220-4110	1	Environmentally Protected				
			40.0DGAE, 40.0DL6T, 40AT61				
			Standard				
	220-4194-04	1	347/600, 3 Phase, 4 Wire				
	220-3806	1	Reconnectable, 3 Phase, 12 Wire				
	220-3956	1	Environmentally Protected				

# - Parts Included in 150-1446 Bracket and Point Assembly

\* - Parts Included in Generator Rotor Assemblies

+ - Parts Included in Excitor Rotor Assemblies

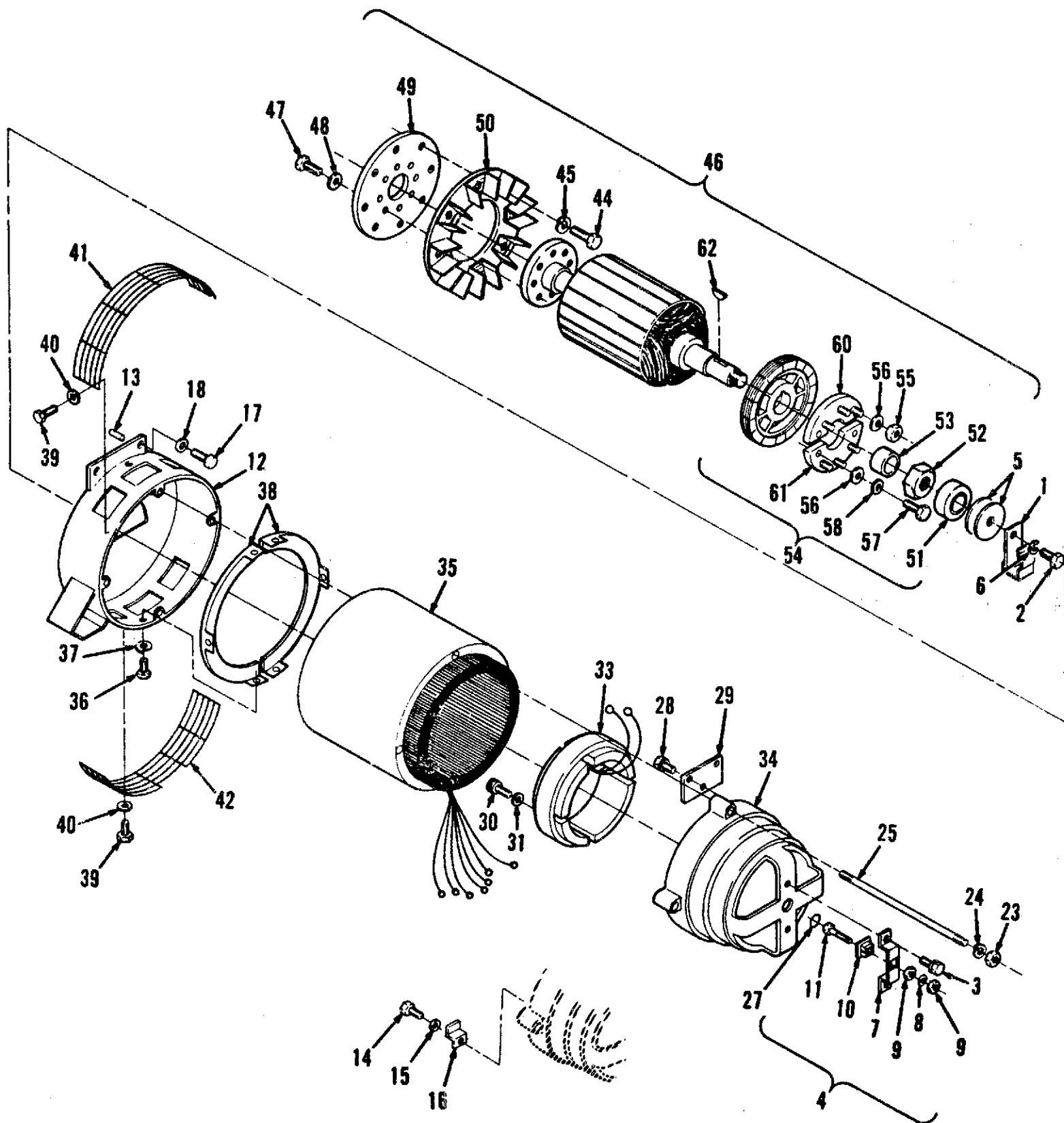
**Generator**  
 (32.0DGAE, 32.0DL6T, 32.0AT61,  
 40.0DGAE, 40.0DL6T, 40.0AT61)



**Generator**  
**(32.0DGAE, 32.0DL6T, 32.0AT61,**  
**40.0DGAE, 40.0DL6T, 40.0AT61)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0717	1	Switch, Overspeed		220-3607	1	Reconnectable, 3 Phase, 12 Wire
2	800-0051	1	Screw, Cap- Hex Head (3/8-16 x 1-1/4")				25.0DGAC, 25.0DL6, 25A61 Standard
3	821-0010	2	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")		220-3533	1	120/240, 1 Phase, 4 Wire
4	150-1446	1	Bracket and Point Assembly (Includes Parts Marked #)		220-3768	1	347/600, 3 Phase, 4 Wire
					220-3559	1	Reconnectable, 3 Phase, 12 Wire
5	526-0077	2	Washer, Flat (3/8")				Extended Stack
6	856-0010	1	Washer, Lock - EIT (3/8")		220-3560	1	Environmentally Protected
7	150-1445	1	#Bracket, Mounting		220-3587	1	25.0DGAD, 25.0DL6, 25A61 Standard
8	853-0013	1	#Washer, Lock - ET (1/4")				120/240, 1 Phase, 4 Wire
9	862-0001	2	#Nut, Hex (1/4-20)		220-3590	1	Reconnectable, 3 Phase, 12 Wire
10	870-0250	1	#Nut, Insulation		220-3608	1	Extended Stack
11	150-0723	1	#Point, Contact				30.0DGAD, 30.0DL6, 30A61 Standard
12	231-0289	1	Adapter, Generator (Includes Timing Indicator)		220-3609	1	100/200, 1 Phase, 4 Wire
13	160-1292	1	Indicator, Timing				120/240, 1 Phase, 4 Wire
14	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8") Excitor Stator Mounting (Early Spec A Models)		220-4086	1	220/380, 3 Phase, 4 Wire
					220-3532	1	347/600, 3 Phase, 4 Wire
15	853-0013	4	Washer, Lock - ET (1/4") Excitor Stator Mounting (Early Spec A Models)		220-4102	1	Reconnectable, 3 Phase, 12 Wire
					220-3769	1	Extended Stack
16	232-2584	4	Clip, Retaining - Exciter Stator Mounting (Early Spec A Models)		220-3560	1	Environmentally Protected
					220-3561	1	120/240, 1 Phase, 4 Wire
17	718-1078	6	Screw, Cap - Hex Head (M12 x 50 MM)		220-3998	1	Reconnectable, 3 Phase, 12 Wire
					220-3588	1	Extended Stack and Environmentally Protected
18	740-1801	6	Washer, Flat (M12)				
23	862-0003	4	Nut, Hex (3/8-16)	36	800-2033	6	Screw, Cap - Hex Head (M6 x 16 mm)
24	850-0050	4	Washer, Lock - Spring (3/8")				Washer, Lock - Spring (M6)
25	520-0802	4	Stud	37	850-2006	6	Baffle, Air
27	509-0094	1	Seal, O-Ring	38	234-0688	2	Screw, Cap - Hex Head (M6 x 12 mm)
28	815-0194	2	Screw, Tapping - Hex Head with ET Lockwasher (#10-32 x 3/8")	39	800-2029	8	Washer, Flat (5/16")
				40	526-0022	8	Guard, Fan - Upper
29	232-2418	1	Board, Terminal	41	234-0689	1	Guard, Fan - Lower
30	802-0040	4	Screw, Cap - Socket Head (1/4-20 x 2")	42	234-0690	1	Bolt, Hex Head (M10 x 20 mm)
31	850-0040	4	Washer, Lock - ET (1/4")	44	800-2085	9	Washer, Lock - Spring (M10)
33			Stator, Excitor	45	850-2010	8	Rotor Assembly, Generator (Includes Parts Marked *)
	220-2010	1	Standard	46		1	16.0DGAB, 16.0DL4, 16A41 Standard
	220-2309	1	Environmentally Protected				120/240, 1 Phase, 4 Wire
34	211-0256	1	Bell, End		201-2947	1	Reconnectable, 3 Phase, 12 Wire
35		1	Stator, Generator		201-2946	1	Extended Stack
			16.0DGAB, 16.0DL4, 16A41 Standard				Environmentally Protected
	220-3592	1	120/240, 1 Phase, 4 Wire		201-2947	1	20.0DGAB, 20.0DL4, 20A41 Standard
	220-3606	1	Reconnectable, 3 Phase, 12 Wire		201-2947	1	120/240, 1 Phase, 4 Wire
					201-2946	1	Reconnectable, 1 Phase, 4 Wire
	220-3607	1	Extended Stack		201-2946	1	220/380, 3 Phase, 4 Wire
	220-3616	1	Environmentally Protected				Reconnectable, 3 Phase, 12 Wire
			20.0DGAB, 20.0DL4, 20A41 Standard		201-2955	1	Extended Stack
	220-3534	1	120/240, 1 Phase, 4 Wire		201-2947	1	100/200, 1 Phase, 4 Wire
	220-3534	1	Reconnectable, 1 Phase, 4 Wire				Reconnectable, 3 Phase, 12 Wire
					201-2946	1	Environmentally Protected
	220-4100	1	220/380, 3 Phase, 4 Wire		201-3176	1	Extended Stack and Environmentally Protected
	220-3558	1	Reconnectable, 3 Phase, 12 Wire		201-3048	1	20.0DGAC, 20.0DL6, 20A61 Standard
			Extended Stack				120/240, 1 Phase, 4 Wire
			100/200, 1 Phase, 4 Wire				
	220-4087	1	Reconnectable, 3 Phase, 12 Wire				
	220-3559	1	Environmentally Protected				
			Environmentally Protected				
	220-3586	1	Extended Stack and Environmentally Protected				
	220-3587	1	Environmentally Protected				
			20.0DGAC, 20.0DL6, 20A61 Standard				
	220-3591	1	120/240, 1 Phase, 4 Wire				

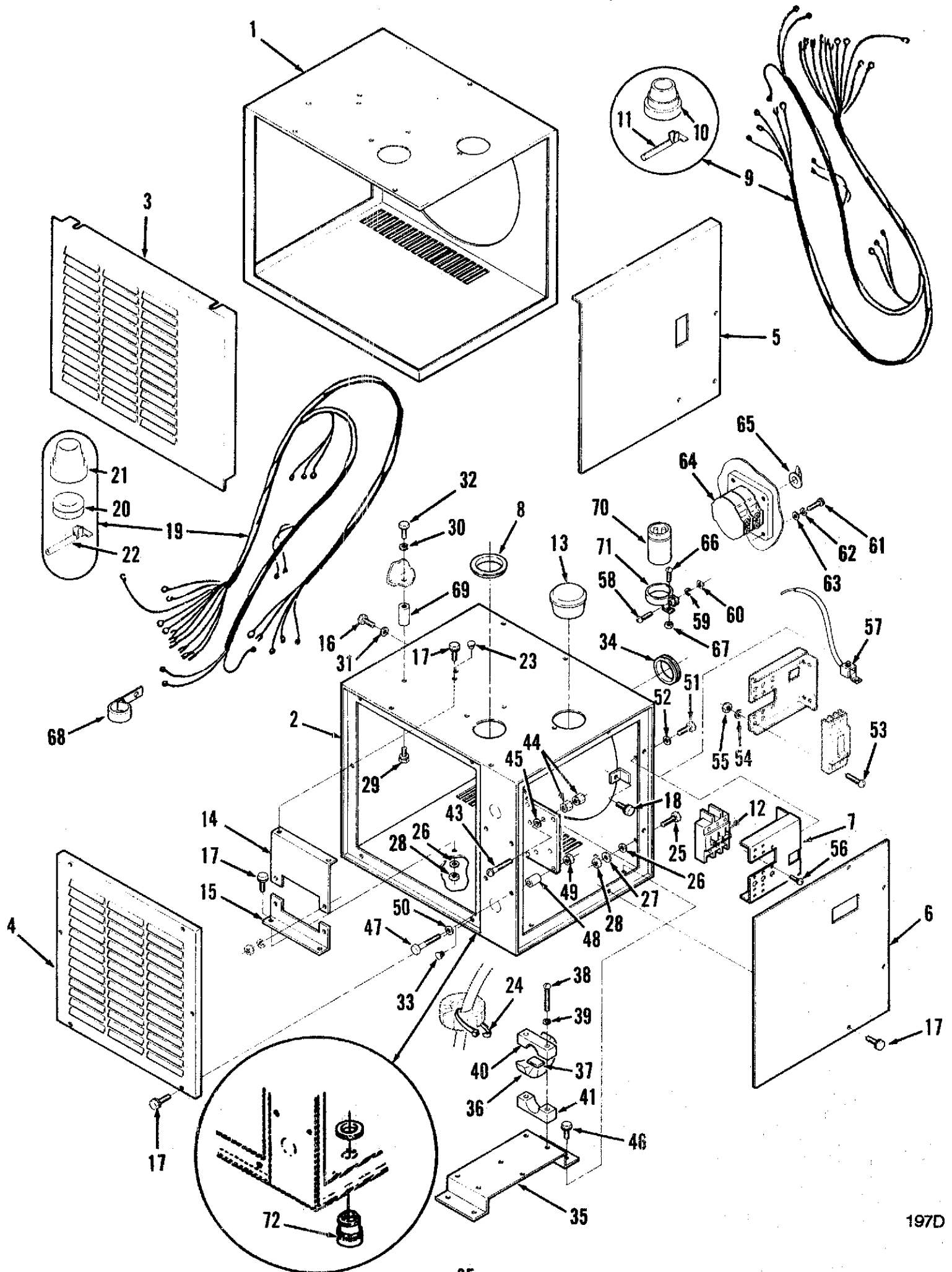
Generator  
(32.0DGAE, 32.0DL6T, 32.0AT61,  
40.0DGAE, 40.0DL6T, 40.0AT61)



**Generator**  
**(32.ODGAE, 32.ODL6T, 32.0AT61,**  
**40.ODGAE, 40.ODL6T, 40.0AT61)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
201-2947		1	Reconnectable, 3 Phase, 12 Wire	47	805-0025	8	*Bolt, Hex Head - Slotted, Grade 8 (7/16-14 x 3/4")
			25.ODGAC, 25.ODL6, 25A61	48	526-0249	8	*Washer, Flat - Hardened (15/32" ID x 1" OD x 1/8" Thk)
			Standard				
201-2955		1	120/240, 1 Phase, 4 Wire	49	232-2921	1	*Disk, Drive
201-2947		1	347/600, 3 Phase, 4 Wire	50	205-0145	1	*Fan, Generator
201-2947		1	Reconnectable, 3 Phase, 12 Wire	51	510-0112	1	*Bearing, Ball
				52	870-0284	1	*Nut, Self-Locking Hex (1-1/8 - 12)
201-2955		1	Extended Stack				
201-3048		1	Environmentally Protected	53	232-2398	1	*Spacer, Bearing
			25.ODGAD, 25.ODL6, 25A61	54			*Rotor Assembly, Excitor (Includes Parts Marked +)
			Standard				
201-2956		1	120/240, 1 Phase, 4 Wire		201-2152	1	Standard
201-2955		1	Reconnectable, 3 Phase, 12 Wire		201-2298	1	Environmentally Protected
				55	870-0131	8	+Nut, Self-Locking - Hex With ET Lockwasher (#10-32)
201-2956		1	Extended Stack				
			30.ODGAD, 30.ODL6, 30A61	56	526-0008	12	+Washer, Flat (#10)
			Standard	57	813-0100	4	+Screw, Machine - Round Head (#10-32 x 1/2")
201-2956		1	100/200, 1 Phase, 4 Wire				
201-2956		1	120/240, 1 Phase, 4 Wire	58	853-0008	4	+Washer, Lock - ET (#10)
201-2955		1	220/380, 3 Phase, 4 Wire	60	358-0069	1	+Rectifier Assembly - Positive
201-2955		1	347/600, 3 Phase, 4 Wire	61	358-0070	1	+Rectifier Assembly - Negative
201-2955		1	Reconnectable, 3 Phase, 12 Wire	62	515-0094	1	*Key - Excitor Rotor
201-2956		1	Extended Stack				
			Environmentally Protected				
201-3056		1	120/240, 1 Phase, 4 Wire				# - Parts Included in 150-1446 Bracket and Point Assembly
201-3049		1	Reconnectable, 3 Phase, 12 Wire				* - Parts Included in Generator Rotor Assemblies
							+ - Parts Included in Excitor Rotor Assemblies
201-3050		1	Extended Stack and Environmentally Protected				

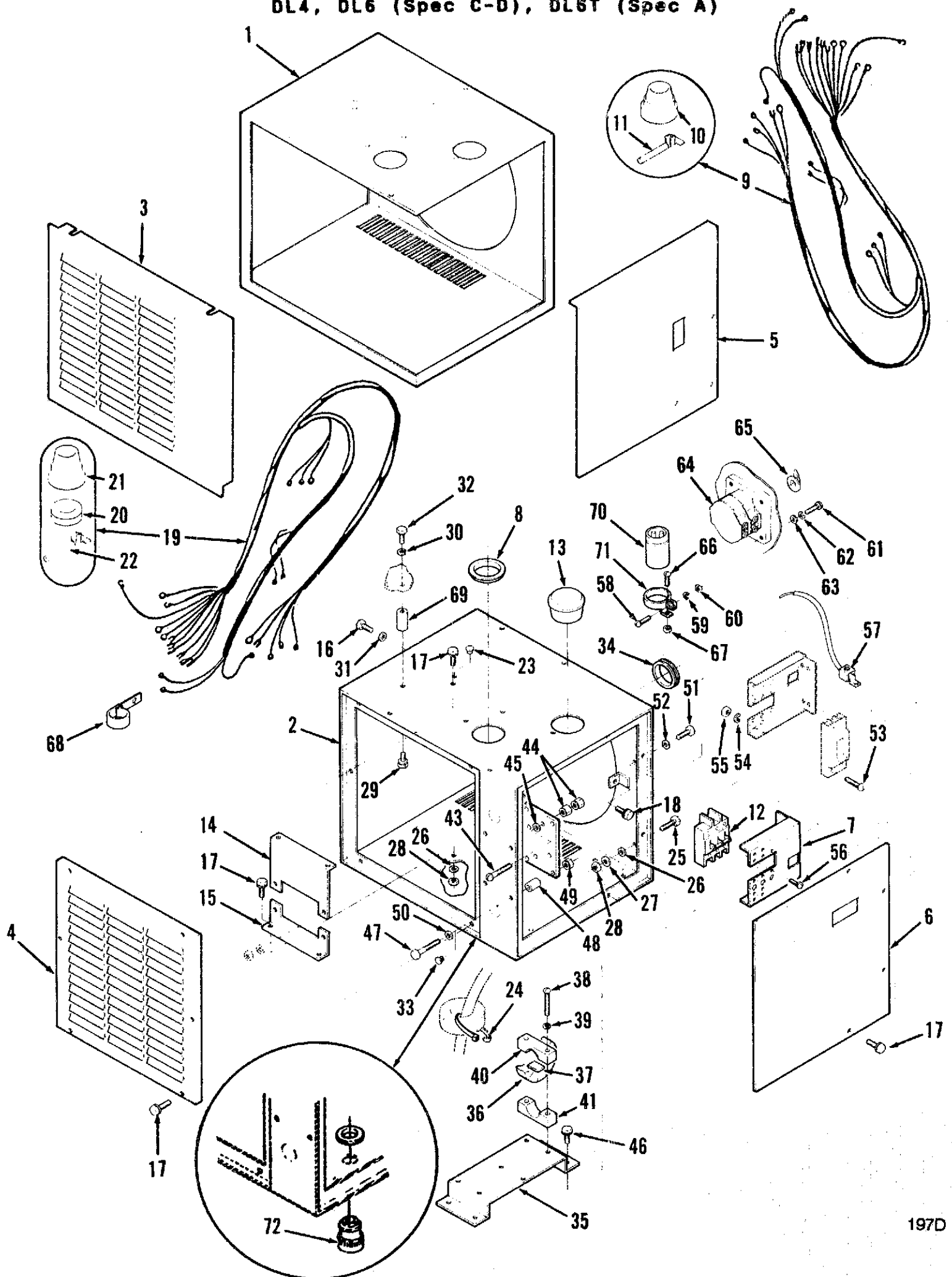
Output Box  
DL4, DL6 (Spec C-D), DL6T (Spec A)



# **Output Box** **DL4, DL6 (Spec C-D), DL6T (Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-7381	1	Box, Output - DL4, DL6 Early Portion of Spec C (Corner Brace is Part of the Grille)	320-0647	1	70 Ampere, 240 Volt	
2	301-7903	1	Box, Output DL4, DL6 Late Portion of Spec C and Spec D	320-1466-11	1	70 Ampere, 240 Volt with Shunt Trip	
3	301-7336	1	Grille, DL4, DL6 Early Portion of Spec C (Corner Brace is Part of the Grille)	320-0700	1	80 Ampere, 240 Volt	
4	301-7899	1	Grille DL4, DL6 Late Portion of Spec C and Spec D	320-1466-12	1	80 Ampere, 240 Volt with Shunt Trip	
5	301-7899	1	DL6T Spec A	320-0642	1	90 Ampere, 240 Volt	
			Cover, DL4, DL6 (Early Portion of Spec C)	320-1466-13	1	90 Ampere, 240 Volt with Shunt Trip	
	301-7335	1	Without Circuit Breaker Opening	320-0701	1	100 Ampere, 240 Volt	
	301-7516	1	Use with Westinghouse and General Electric Breakers	320-1466-14	1	100 Ampere, 240 Volt with Shunt Trip	
	301-7515	1	Use with Heineman Circuit Breakers	320-1555-06	1	125 Ampere, 240 Volt	
6			Cover, DL4, DL6 (Late Portion of Spec C and Spec D)	320-1557-06	1	125 Ampere, 240 Volt with Shunt Trip	
			DL6T (Spec A)	320-1556-06	1	125 Ampere, 240 Volt with Auxiliary Contacts	
	301-7901	1	Without Circuit Breaker Opening	320-1555-07	1	150 Ampere, 240 Volt	
	301-7941	1	Use with Westinghouse and General Electric Breakers	320-1557-07	1	150 Ampere, 240 Volt with Shunt Trip	
	301-7942	1	Use with Heineman Circuit Breakers	320-1556-07	1	150 Ampere, 240 Volt with Auxiliary Contacts	
7	301-7572	1	Bracket, Circuit Breaker Mounting	320-1555-08	1	175 Ampere, 240 Volt	
8	508-0257	1	Grommet, Plastic (3-1/2" Hole)	320-1555-09	1	200 Ampere, 240 Volt	
9	338-1647	1	Harness, Wiring - Generator to Control (Includes Plug and Pins)	320-1555-10	1	225 Ampere, 240 Volt	
10	323-1136	1	Plug, Circular (14 Pin) (P2)	320-0643	1	30 Ampere, 480 Volt	
11	323-1228	11	Pin, Male	320-1466-19	1	30 Ampere, 480 Volt with Shunt Trip	
12			Breaker, Circuit 2 Pole	320-0638	1	40 Ampere, 480 Volt	
	320-0630	1	70 Ampere, 240 Volt	320-1466-21	1	40 Ampere, 480 Volt with Shunt Trip	
	320-0635	1	80 Ampere, 240 Volt	320-0645	1	50 Ampere, 480 Volt	
	320-0636	1	90 Ampere, 240 Volt	320-1466-23	1	50 Ampere, 480 Volt with Shunt Trip	
	320-0632	1	100 Ampere, 240 Volt	320-1458-24	1	60 Ampere, 480 Volt	
	320-1555-01	1	125 Ampere, 240 Volt	320-1466-24	1	60 Ampere, 480 Volt with Shunt Trip	
	320-1557-01	1	125 Ampere, 240 Volt with Shunt Trip	320-1458-25	1	70 Ampere, 480 Volt	
	320-1555-02	1	150 Ampere, 240 Volt	320-1466-25	1	70 Ampere, 480 Volt with Shunt Trip	
	320-1557-02	1	150 Ampere, 240 Volt with Shunt Trip	320-1458-25	1	80 Ampere, 480 Volt	
	320-1556-02	1	150 Ampere, 240 Volt with Auxiliary Contacts	320-1466-26	1	80 Ampere, 480 Volt with Shunt Trip	
	320-1555-03	1	175 Ampere, 240 Volt	320-1458-27	1	90 Ampere, 480 Volt	
	320-1557-03	1	175 Ampere, 240 Volt with Shunt Trip	320-1458-30	1	125 Ampere, 480 Volt	
	320-1556-03	1	175 Ampere, 240 Volt with Auxiliary Contacts	320-1458-35	1	25 Ampere, 600 Volt	
	320-1555-05	1	225 Ampere, 240 Volt	320-1466-35	1	25 Ampere, 600 Volt with Shunt Trip	
	320-0646	1	40 Ampere, 240 Volt	320-1458-36	1	30 Ampere, 600 Volt	
	320-1466-07	1	40 Ampere, 240 Volt with Shunt Trip	320-1466-36	1	30 Ampere, 600 Volt with Shunt Trip	
	320-0698	1	50 Ampere, 240 Volt	320-1458-38	1	40 Ampere, 600 Volt	
	320-1466-09	1	50 Ampere, 240 Volt with Shunt Trip	320-1466-38	1	40 Ampere, 600 Volt with Shunt Trip	
	320-0640	1	60 Ampere, 240 Volt	320-1458-40	1	50 Ampere, 600 Volt	
	320-1466-10	1	60 Ampere, 240 Volt with Shunt Trip	320-1466-40	1	50 Ampere, 600 Volt with Shunt Trip	
				320-1462-40	1	50 Ampere, 600 Volt with Auxiliary Contacts	
				13 517-0190	1	Plug, Plastic (3-1/2" Hole)	
				14 301-7360	1	Bracket, Upper	
				15 301-7361	1	Bracket, Lower	
				16 815-0567	2	Screw, Self-Tapping - Hex Head (5/16-18 x 1-1/4")	
				17 821-0010	14	Screw, Self-Locking (1/4-20 x 1/2")	
				18 815-0236	1	Screw, Cap - Hex Head (5/16-18 x 5/8")	

**Output Box**  
**DL4, DL6 (Spec C-D), DL6T (Spec A)**

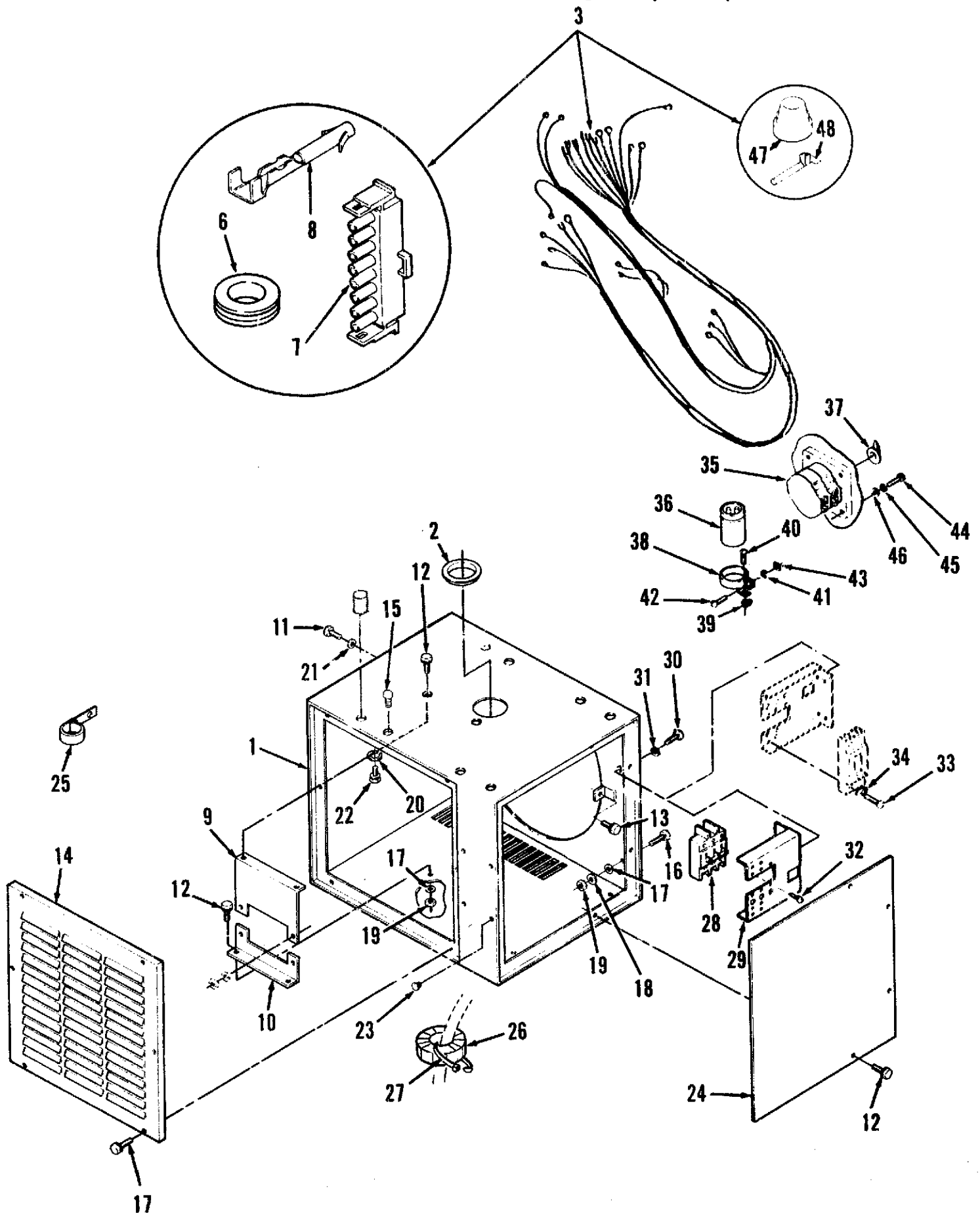




# **Output Box** **DL4, DL6 (Spec C-D), DL6T (Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
19	338-1649	1	Harness, Wiring - Engine to Control (Includes Grommet, Plug and Sockets)	42	332-2653	1	Block, Terminal
20	508-0258	1	Grommet, Rubber (1-1/2" Hole)	43	812-0160	1	Screw, Machine - Round Head (1/4-20 x 2-1/2")
21	323-1134	1	Plug, Circular (16 Pin) (Pi)		812-0158	4	(1/4-20 x 2") - Single Phase Sets
22			Socket, Female		812-0158	6	(1/4-20 x 2") - Three Phase Sets
	323-1192	4	14-12 Gauge Wire	44			Nut, Self-Locking (1/4-20)
	323-1195	10	18-14 Gauge Wire		870-0212	6	Single Phase Sets
23	517-0169	4	Plug, Plastic (3/8" Hole)		870-0212	8	Three Phase Sets
24	332-0941	3	Tie, Cable	45			Washer, Lock - IT (1/4")
25	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1") - Ground		854-0014	3	Single Phase Sets
26	856-0006	4	Washer, Lock - EIT (1/4")		854-0014	4	Three Phase Sets
27	526-0018	3	Washer, Flat (1/4")	46	821-0009	4	Screw, Self-Locking (1/4-20 x 3/8")
28	862-0001	3	Nut, Hex (1/4-20)	47	800-0010	4	Screw, Cap - Hex Head (1/4-20 x 3/4")
29	821-0014	4	Screw, Self-Locking (5/16-18 x 1/2")	48	332-1348	4	Spacer
30	850-0045	4	Washer, Lock-Spring (5/16")	49	870-0212	4	Nut, Self-Locking (1/4-20)
31	526-0115	2	Washer, Flat (5/16")	50	854-0014	4	Washer, Lock - IT (1/4")
32	800-0024	4	Screw, Cap - Hex Head (5/16-18 x 1/2")	51	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
33	517-0045	4	Plug, Dot Button (9/32" Hole) (Output Boxes without Terminal Blocks)	52	850-0040	2	Washer, Lock - Spring (1/4")
34	508-0055	1	Grommet, Rubber (1-3/4" Hole)	53	812-0094	4	Screw, Machine - Round Head (#8-32 x 3-5/8")
35	301-8157	1	Bracket, Mounting	54	850-0025	4	Washer, Lock - Spring (#8)
36			Transformer, Current - CT21, 22, 23	55	860-0008	4	Nut, Hex (#8-32)
			DL4 (Ratio 100/5, 1VA)	56	812-0063	6	Screw, Machine - Round Head (#6-32 x 1/2")
	302-0078	2	Single Phase Sets	57	226-3423	6	Lead, Generator Output Extension
	302-0078	3	Three Phase Sets	58	812-0078	2	Screw, Machine - Round Head (#8-32 x 7/16")
			DL6 (Ratio 75/5, 1VA)	59	850-0025	2	Washer, Lock - Spring (#8)
	302-0076	2	Single Phase Sets	60	861-0007	2	Nut, Square (#8-32)
	302-0076	3	Three Phase Sets	61	812-0153	4	Screw, Machine - Round Head (1/4-20 x 1")
			DL6T (Ratio 200/5, 1VA)	62	850-0040	4	Washer, Lock - Spring (1/4")
	302-0106	2	Single Phase Sets	63	526-0052	4	Washer, Flat (1/4")
	302-0106	3	Three Phase Sets	64	308-0770	1	Switch, Tap - Dual Phase Selector (Includes Knob and Mounting Hardware)
37			Shim				Knob
	302-0253	4	Single Phase Sets	65	303-0218	1	Knob
	302-0253	6	Three Phase Sets	66	815-0166	4	Screw, Machine - Fillister Head (#10-32 x 1")
38			Screw, Machine - Round Head (#10-32 x 2")	67	870-0131	4	Nut, Hex - With ET (#10-32)
	813-0110	4	Single Phase Sets	68	332-2634	3	Clamp, Insulating
	813-0110	6	Three Phase Sets	69	402-0070	4	Dampener, Vibration
39			Washer, Lock - IT (#10)	70	356-0090	2	Capacitor (1300 Mfd.) Used with Switching Voltage Regulator (C1)
	854-0010	4	Single Phase Sets				Clamp, Mounting
	854-0010	6	Three Phase Sets	71	356-0102	2	Clamp, Mounting
40			Clamp, Upper	72	335-0166	1	Insulator - Strain Relief
	302-0235	2	Single Phase Sets				
	302-0235	3	Three Phase Sets				
41			Clamp, Lower				
	302-0236	2	Single Phase Sets				
	302-0236	3	Three Phase Sets				

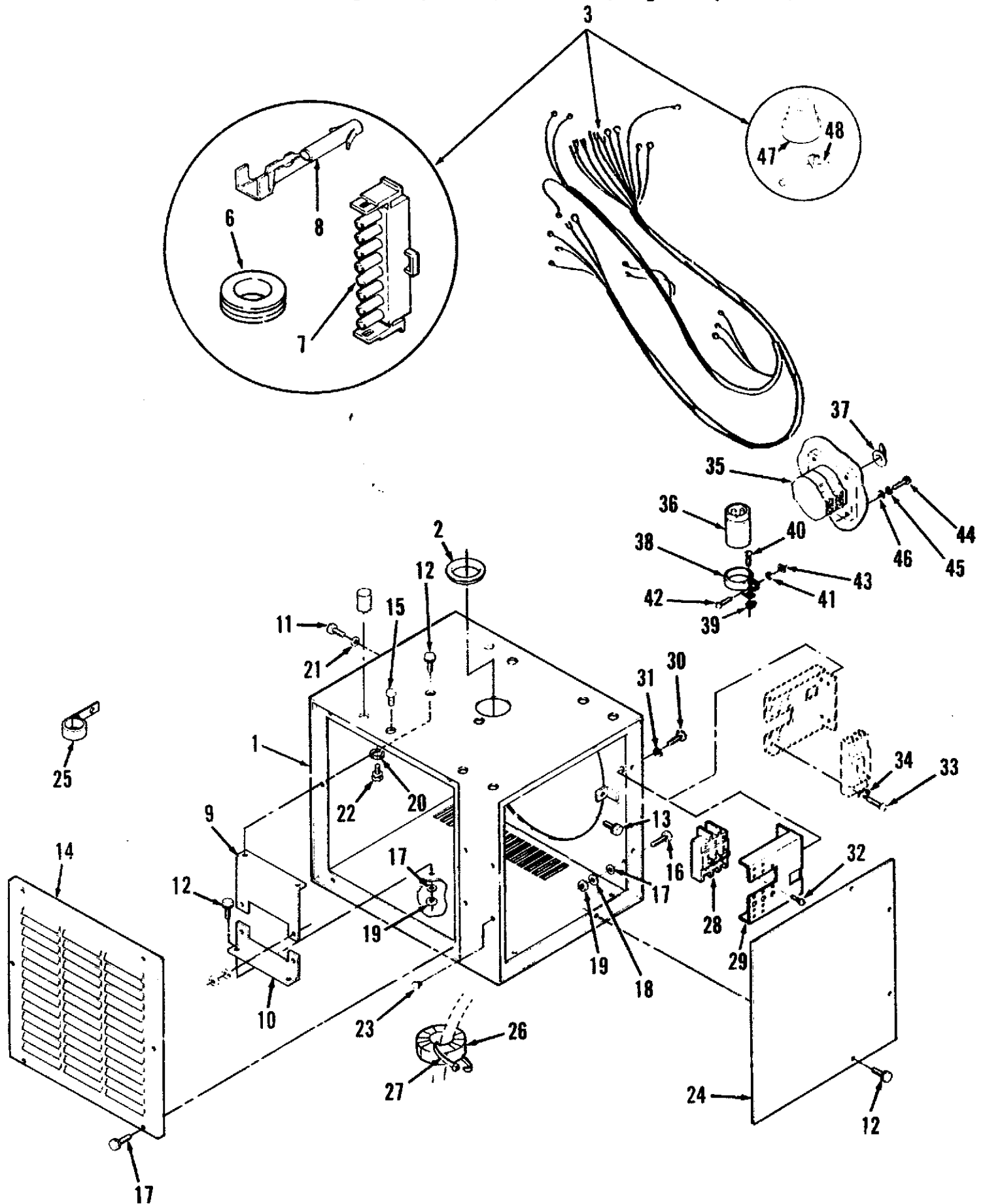
**Output Box**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**



**Output Box**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0425	1	Box, Output	320-1557-02	1	150 Ampere, 240 Volt	
2	508-0257	1	Grommet, Plastic (3-1/2")			with Shunt Trip	
3			Harness, Wiring	320-1556-02	1	150 Ampere, 240 Volt	
	338-2327	1	Generator to Control			with Auxiliary Contacts	
			Engine to Control	320-1555-03	1	175 Ampere, 240 Volt	
	338-2328	1	DL4, A41 - Spec E	320-1557-03	1	175 Ampere, 240 Volt	
			(Motorola Alternator)			with Shunt Trip	
	338-2329	1	DL6, DL6T, A61, AT61,	320-1556-03	1	175 Ampere, 240 Volt	
			Spec E (Motorola			with Auxiliary Contacts	
			Alternator)	320-1555-05	1	225 Ampere, 240 Volt	
	338-2629	1	DGAB, DL4 - Begin Spec F			3 Pole	
			(Bosch Alternator)	320-0646	1	40 Ampere, 240 Volt	
	338-2631	1	DGAC, DGAD, DGAE, DL6,	320-1466-07	1	40 Ampere, 240 Volt	
			DL6T Begin Spec F			with Shunt Trip	
			(Bosch Alternator)	320-0698	1	50 Ampere, 240 Volt	
6	508-0258	1	*Grommet, Rubber	320-1466-09	1	50 Ampere, 240 Volt	
7			*Housing, Connector			with Shunt Trip	
	323-1304	1	6 Place (J2)	320-0640	1	60 Ampere, 240 Volt	
	323-1306	1	8 Place (J1)	320-1466-10	1	60 Ampere, 240 Volt	
8	323-1200	12	*Socket, Female			with Shunt Trip	
9	301-7360	1	Bracket, Upper	320-0647	1	70 Ampere, 240 Volt	
10	301-7361	1	Bracket, Lower	320-1466-11	1	70 Ampere, 240 Volt	
11	800-0030	2	Screw, Cap - Hex Head			with Shunt Trip	
			(5/16-18 x 1-1/4")	320-0700	1	80 Ampere, 240 Volt	
12	821-0010	14	Screw, Cap - Self-Locking	320-1466-12	1	80 Ampere, 240 Volt	
			(1/4-20 x 1/2")			with Shunt Trip	
13	815-0236	1	Screw, Cap - Hex Head	320-0642	1	90 Ampere, 240 Volt	
			(5/16-18 x 5/8")	320-1466-13	1	90 Ampere, 240 Volt	
14	301-7899	1	Grille			with Shunt Trip	
15	517-0169	4	Plug, Plastic - (3/8" Hole)	320-0701	1	100 Ampere, 240 Volt	
16	800-0007	1	Screw, Cap - Hex Head	320-1466-14	1	100 Ampere, 240 Volt	
			(1/4-20 x 1")			with Shunt Trip	
17	856-0006	4	Washer, Lock - EIT (1/4")	320-1555-06	1	125 Ampere, 240 Volt	
18	526-0018	3	Washer, Flat (1/4")	320-1557-06	1	125 Ampere, 240 Volt	
19	870-0212	2	Nut, Hex (1/4-20)			with Shunt Trip	
20	850-0045	4	Washer, Lock-Spring (5/16")	320-1556-06	1	125 Ampere, 240 Volt	
21	856-0008	2	Washer, Lock - EIT (5/16")			with Auxiliary Contacts	
22	800-0024	4	Screw, Cap - Hex Head	320-1555-07	1	150 Ampere, 240 Volt	
			(5/16-18 x 1/2")	320-1557-07	1	150 Ampere, 240 Volt	
23	517-0045	4	Plug, Dot Button (9/32")			with Shunt Trip	
24			Cover	320-1556-07	1	150 Ampere, 240 Volt	
	301-7901	1	Without Circuit Breaker			with Auxiliary Contacts	
			Opening	320-1555-08	1	175 Ampere, 240 Volt	
			With Circuit Breaker	320-1555-09	1	200 Ampere, 240 Volt	
			Opening	320-1555-10	1	225 Ampere, 240 Volt	
	301-7941	1	Use with Westinghouse and	320-0643	1	30 Ampere, 480 Volt	
			General Electric Circuit	320-1466-19	1	30 Ampere, 480 Volt	
			Breakers			with Shunt Trip	
	301-7942	1	Use with Heineman Circuit	320-0638	1	40 Ampere, 480 Volt	
			Breakers	320-1466-21	1	40 Ampere, 480 Volt	
25	332-2634	3	Clamp, Wiring Harness			with Shunt Trip	
26			Transformer, Current	320-0645	1	50 Ampere, 480 Volt	
			Single Phase	320-1466-23	1	50 Ampere, 480 Volt	
	302-1845-02	2	Ratio 100/5			with Shunt Trip	
	302-1845-03	2	Ratio 150/5	320-1458-24	1	60 Ampere, 480 Volt	
	302-1845-04	2	Ratio 200/5	320-1466-24	1	60 Ampere, 480 Volt	
			Three Phase			with Shunt Trip	
	302-1845-02	3	Ratio 100/5	320-1458-25	1	70 Ampere, 480 Volt	
	302-1845-03	3	Ratio 150/5	320-1466-25	1	70 Ampere, 480 Volt	
	302-1845-04	3	Ratio 200/5			with Shunt Trip	
27			Tie, Cable	320-1458-25	1	80 Ampere, 480 Volt	
	332-1389	2	Single Phase Sets	320-1466-26	1	80 Ampere, 480 Volt	
	332-1389	3	Three Phase Sets			with Shunt Trip	
28			Breaker, Circuit	320-1458-27	1	90 Ampere, 480 Volt	
			2 Pole	320-1458-30	1	125 Ampere, 480 Volt	
	320-0630	1	70 Ampere, 240 Volt	320-1458-35	1	25 Ampere, 600 Volt	
	320-0635	1	80 Ampere, 240 Volt	320-1466-35	1	25 Ampere, 600 Volt	
	320-0636	1	90 Ampere, 240 Volt			with Shunt Trip	
	320-0632	1	100 Ampere, 240 Volt	320-1458-36	1	30 Ampere, 600 Volt	
	320-1555-01	1	125 Ampere, 240 Volt	320-1466-36	1	30 Ampere, 600 Volt	
	320-1557-01	1	125 Ampere, 240 Volt			with Shunt Trip	
			with Shunt Trip	320-1458-38	1	40 Ampere, 600 Volt	
	320-1555-02	1	150 Ampere, 240 Volt				

Output Box  
 DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,  
 DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)

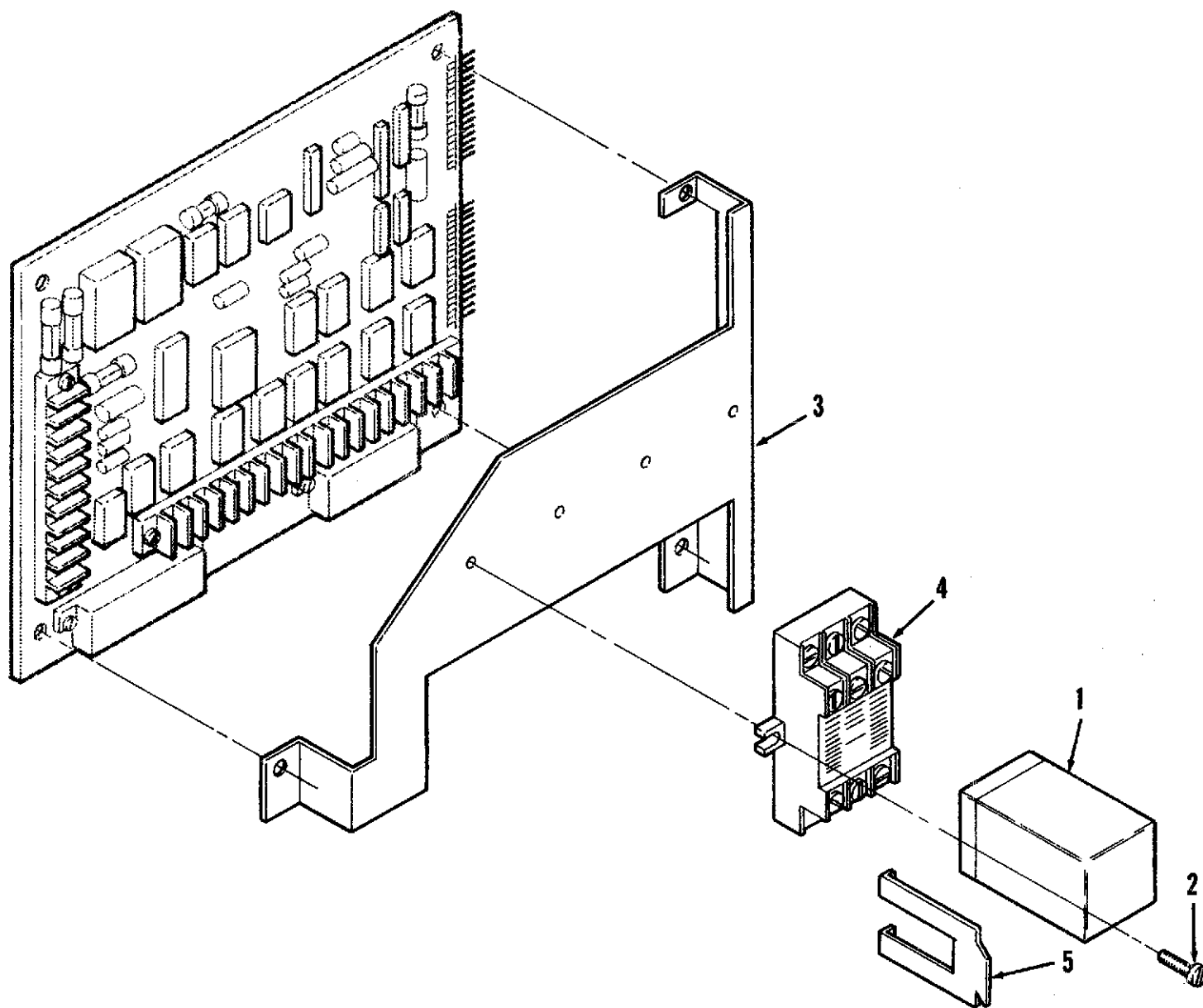


**Output Box**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	320-1466-38	1	40 Ampere, 600 Volt with Shunt Trip	37	303-0218	1	Knob
	320-1458-40	1	50 Ampere, 600 Volt	38	356-0102	2	Clamp, Mounting
	320-1466-40	1	50 Ampere, 600 Volt with Shunt Trip	39	870-0131	8	Nut, Hex With ET Washer (#10-32)
	320-1462-40	1	50 Ampere, 600 Volt with Auxiliary Contacts	40	815-0166	4	Screw, Machine - Fillister Head (#10-32 x 1")
29	301-7572	1	Bracket, Circuit Breaker Mounting	41	850-0025	2	Washer, Lock-Spring (#8)
30	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	42	812-0078	2	Screw, RHM (#8-32 x 7/16")
31	850-0040	2	Washer, Lock-Spring (1/4")	43	861-0007	2	Nut, Square (#8-32)
32	812-0063	6	Screw, RHM (#6-32 x 1/2")	44	812-0153	4	Screw, RHM (1/4-20 x 1")
33	812-0094	4	Screw, RHM (#8-32 x 3-5/8")	45	850-0040	4	Washer, Lock-Spring (1/4")
34	850-0025	4	Washer, Lock-Spring (#8)	46	526-0052	4	Washer, Flat (1/4")
35	308-0770	1	Switch, Tap-Dual Phase Selector (Includes Knob and Mounting Hardware)	47	323-1136	1	Plug, Circular (14 Pin)(P2)
36	356-0090	2	Capacitor (1300 MFD) Used with Selecting Voltage Switch (C1)	48	323-1228	11	Pin, Male

\* Parts Included in Generator to Control Harness.

**Run Relay**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**



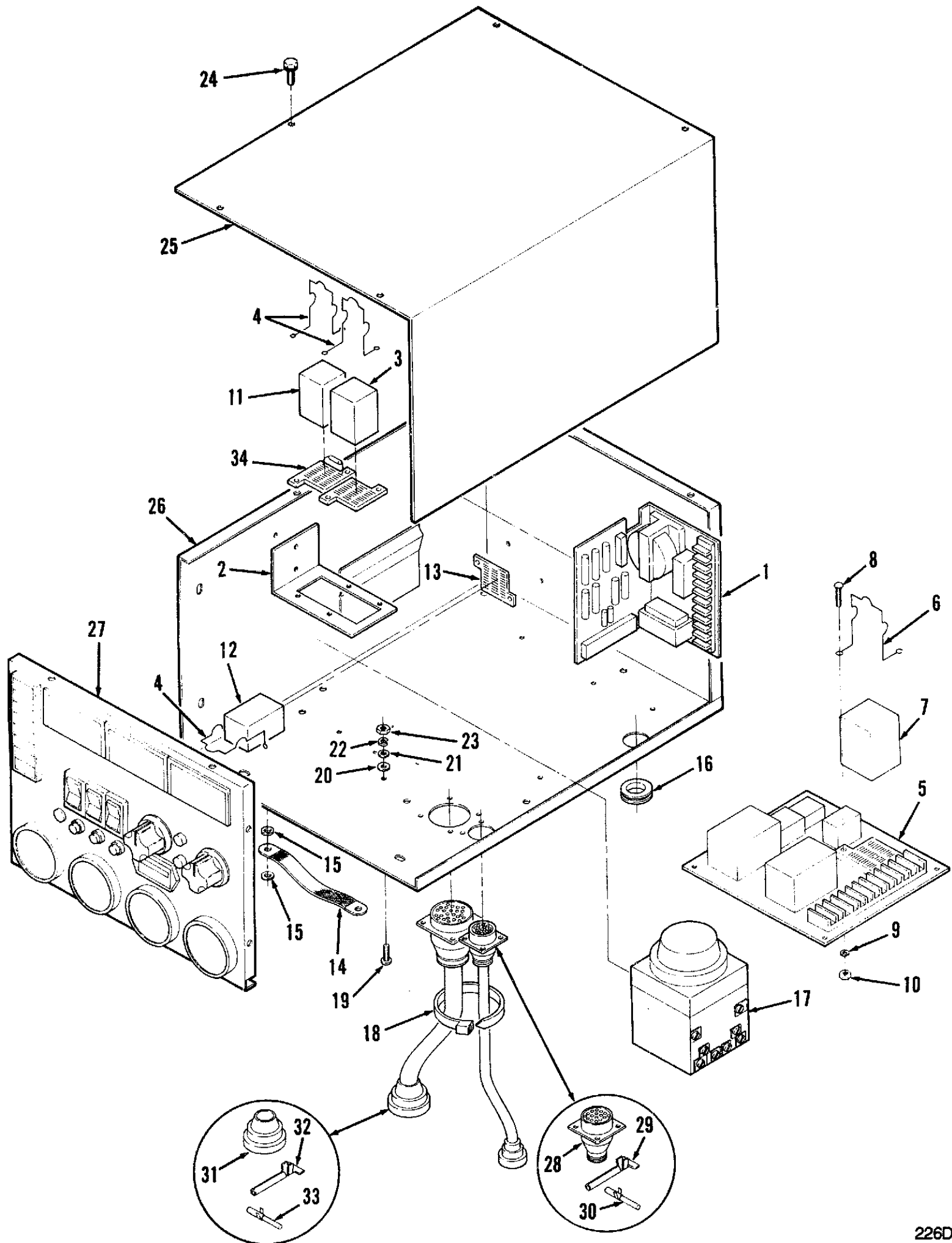
577B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Relay, Run (K11) (Quantity as Required)
	307-1058	1	12 VDC
	307-1056	1	24 VDC
2	815-0388	2	*Screw, Pan Head - Cross Recessed Thread (#6-32 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	319-0447	1	Bracket, Relay Mounting
4	323-0804	1	*Socket, Relay
5	307-1987	2	*Holddown, Relay

\* - Quantities listed are for one mounted relay.

Control  
DL4, DL6, (Spec C-D), DL6T (Spec A)

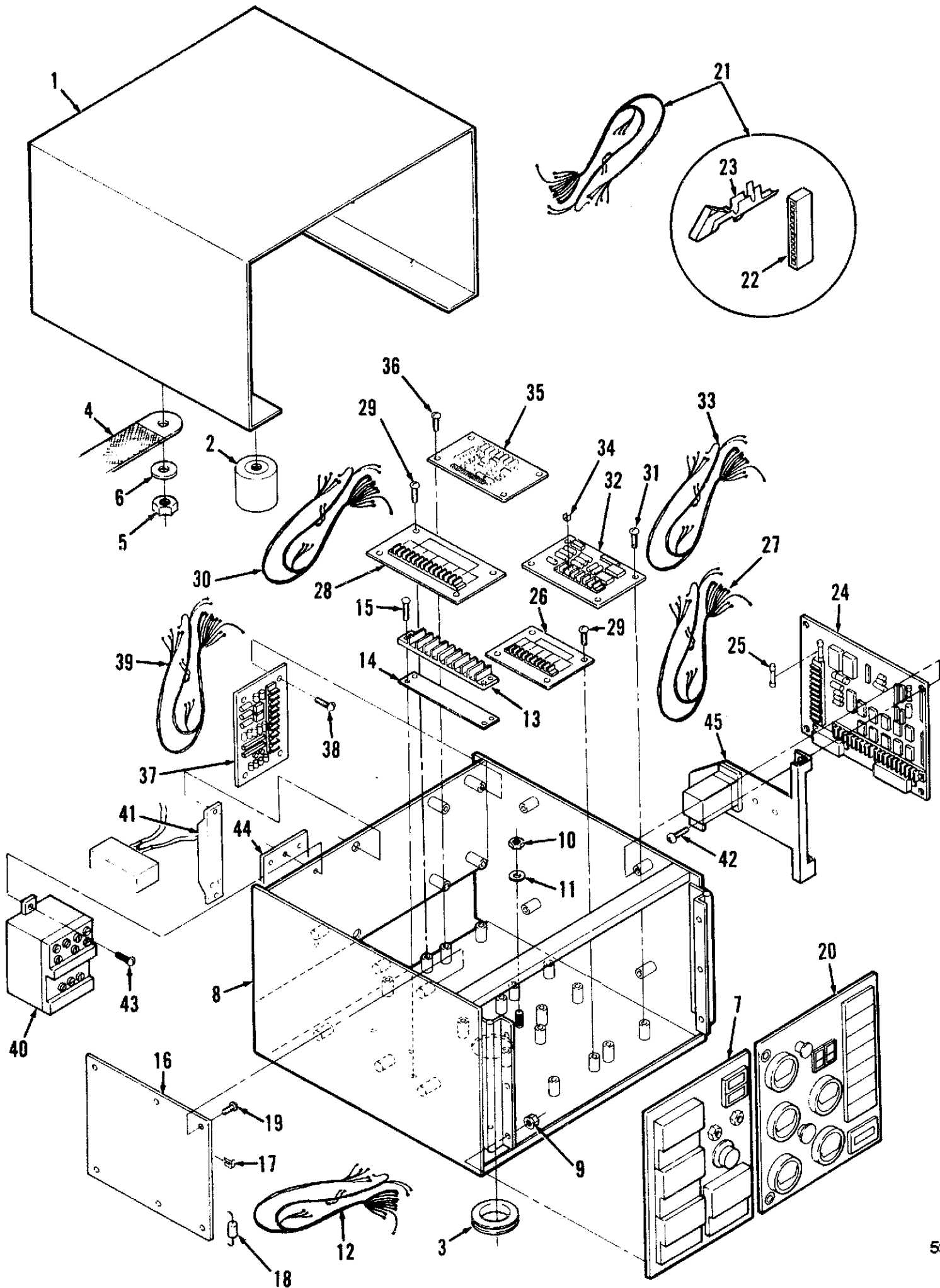


**Control**  
**DL4, DL6, (Spec C-D), DL6T (Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Regulator, Assembly, Voltage (See Separate Page for Components) Standard (VRA21)	18	338-1427	1	Harness, Wiring - Remote control (30')
	305-0693-01	1	Fixed Resistor	19	815-0105	1	Screw, Machine - Round Head (Brass) (#10-32 x 1") Grounding Stud
	305-0693-02	1	External Adjust	20	526-0063	2	Washer, Flat - Brass (#10)
			Switching Regulator (VRA21)	21	856-0003	2	Washer, Lock - EIT (#10)
	305-0695-01	1	Fixed Resistor	22	851-0001	1	Washer, Lock - Spring Brass (#10)
	305-0737	1	Standard (VRAS-2)	23	871-0010	2	Nut, Hex - Brass (#10-32)
2			Bracket, Mounting - Relay	24	821-0005	5	Screw, Self-Locking - Hex Washer Head (#10-32 x 1/2")
	301-3244	1	One Socket Hole	25	301-5150	1	Cover, Control
	301-7334	1	Two Socket Holes	26	301-6230	1	Box, Control
3	307-1061	1	Relay - Start (K11)	27	-	1	Panel, Control (See Separate Page for Components)
4	307-1157	3	Spring, Holddown - Relay	28			Receptacle - Square Flange
5			Monitor Assembly, Engine (Includes Replaceable Relay and Spring) (A11)		323-1137	1	14 Pin (J2)
	300-2510	1	Two Light Monitoring System (Standard)		323-1135	1	16 Pin (J1)
	300-2453-04	1	Nine Light Monitoring System	29	323-1229	11	Socket, Female - Used with 14 Pin Receptacle
6	307-1157	1	Spring, Holddown - Relay	30			Pin, Male - Used with 16 Pin Receptacle
7	307-1687	1	Relay (A11K1)		323-1193	4	16-12 Gauge Wire
8	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")		323-1194	12	18-14 Gauge Wire
9	854-0006	2	Washer, Lock - IT (#6)	31			Plug - Circular
10	860-0006	2	Nut, Hex (#6-32)		323-1136	1	14 Pin (P2)
11	307-1061	1	Relay- Voltage Selector (K21)		323-1134	1	16 Pin (P1)
12	307-1058	1	Relay - Run (K12)	32			Socket, Female - Used with 16 Pin Plug
13	323-0804	1	Socket, Relay (K12)		323-1192	4	14-12 Gauge Wire
14	337-0049	1	Strap, Ground		323-1195	12	18-14 Gauge Wire
15	856-0008	2	Washer, lock - EIT (5/16")	33	323-1194	11	Pin, Male - Used with 14 Pin Plug
16	508-0144	1	Grommet, Rubber (1" Hole)	34	323-0765	2	Socket, Relay
17			Relay - Time Delay (Stop) (K15)				
	307-1151	1	1 Second to 5 Minutes				
	307-1194	1	3 to 30 Minutes				
	307-1189	1	6 to 60 Minutes				



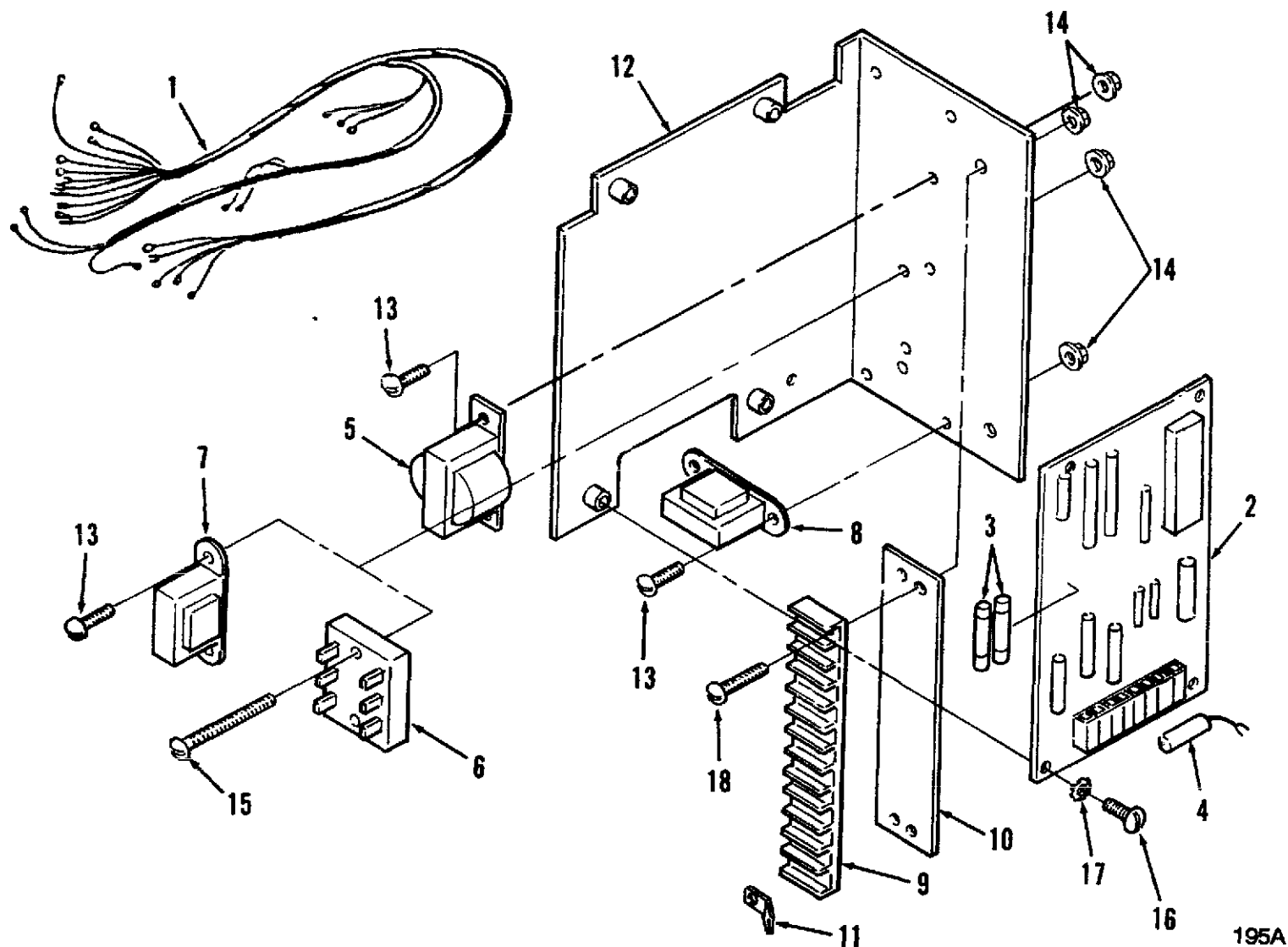
Control  
 DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,  
 DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)



**Control**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0413	1	Cover, Control	27	338-1906	1	Harness, Wiring - Alarm Relay (7 and 12 Light Controls) (A13 to A11TB2)
2	402-0527	4	Isolator, Vibration				
3	508-0051	1	Grommet, (2" Hole)	28			Board, Printed Circuit - Alarm Relay (7 and 12 Light Control) (A13)
4	337-0049	1	Strap, Ground		300-2862	1	12 VDC
5	862-0015	1	Nut, Hex (5/16-18)		300-2863	1	24 VDC
6	856-0008	1	Washer, Lock - EIT (5/16")	29			Screw, Machine - Round Head (#6-32 x 1/2")
7	-		Door Assembly, Control - AC (Left Hand Side Facing Control Doors) (See Separate Page for Components)		812-0063	4	7 Light Control
8	319-0416	1	Tray - Control		812-0063	8	12 Light Control
9	870-0131	6	Nut, Hex - ET (#10-32)	30	338-1905	1	Harness, Wiring - Alarm Relay (12 Light Control) (A14 to A11TB2)
10	871-0015	1	Nut, Hex (1/4-20) Grounding Stud				Screw, Machine - Round Head - Cross Recessed with IT (#6-32 x 1/2")
11	853-0013	1	Washer, Lock - ET (1/4")	31	815-0544	4	Board, Printed Circuit - Time Delay - Start/Stop/Preheat (A15)
12	338-2331	1	Harness, Wiring - AC (Includes Terminal Block) (AC Door Assembly to TB21 Terminal Block)	32			Without Preheat
13	332-0607	1	Block, Terminal - 12 Place (TB21)		300-2897	1	12 Volt DC
14	332-2723	1	Strip, Marker		300-2899	1	24 Volt DC with Preheat - DGAB, DGAC, DGAD, DGAE, DL4, DL6, DL6T
15	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")		300-2898	1	12 Volt DC
16	300-2880	1	Board, Voltage Regulator (Includes Jumper) (VR21)		300-2900	1	24 Volt DC with Preheat - A41, A61, AT61
17	332-2605	1	Jumper, Terminal (VR21TB1-3 to -4) (W1)		300-3344	1	12 Volt DC
18	350-0394	1	Resistor (VR21TB1-7 to -8) (Controls without Panel Voltage Adjust)		300-3345	1	24 Volt DC
19	815-0544	1	Screw, Machine - Round Head - Cross Recessed with IT (#6-32 x 1/2")	33	338-1904	1	Harness, Wiring - Time Delay Start/Stop (A15 to A11TB1)
20	-		Door Assembly, Control - DC (Right Hand Side Facing Control Doors) (See Separate Page for Components)	34	332-2957	1	Terminal, Tab (Double) (A15TB1-7)
21			Harness, Wiring - DC (Includes Connector Housing and Contact Pins) (DC Door to Engine Monitor)	35	-		Board, Printed Circuit - Magnetic Pickup (A16) (See Separate Page for Part Number and Related Replacement Parts)
	338-2330	1	DGAB, DGAC, DGAD, DGAE, DL4, DL6, DL6T	36	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")
	338-2333	1	A41, A61, AT61	37			Board, Printed Circuit - Over/Under Voltage Sensor (A17)
22	323-1308	1	Housing, Connector - 12 Place (J4)		300-2905	1	12 DVC
23	323-1302	12	Pin, Contact		300-2906	1	24 DVC
24			Monitor, Engine (Includes Fuses) (A11)	38	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")
			7 Light Control	39	338-1940	1	Harness, Wiring - Over/Under Voltage Sensor (A17 to A11)
	300-2809	1	12 VDC	40	302-1833-01	1	Transducer, Watt (A21)
	300-2810	1	24 VDC	41	-		Heater, Control (See Separate Page for Components)
			12 Light Control	42	815-0544	4	Screw, Machine - Round Head - Cross Recessed with IT (#6-32 x 1/2")
	300-2811	1	12 VDC	43	813-0102	2	Screw, Machine - Round Head (#10-32 x 5/8")
	300-2812	1	24 VDC	44	319-0030	1	Plate, Mounting - Transducer
25			Fuse	45	-		Relay, Run (See Separate Page for Components)
	321-0270	2	20 Amp (F1, F2)				
	321-0231	1	15 Amp (F3)				
	321-0094	2	5 Amp (F5)				
26			Board, Printed Circuit - Alarm Relay (12 Light Control) (A14)				
	300-2855	1	12 VDC				
	300-2856	1	24 VDC				

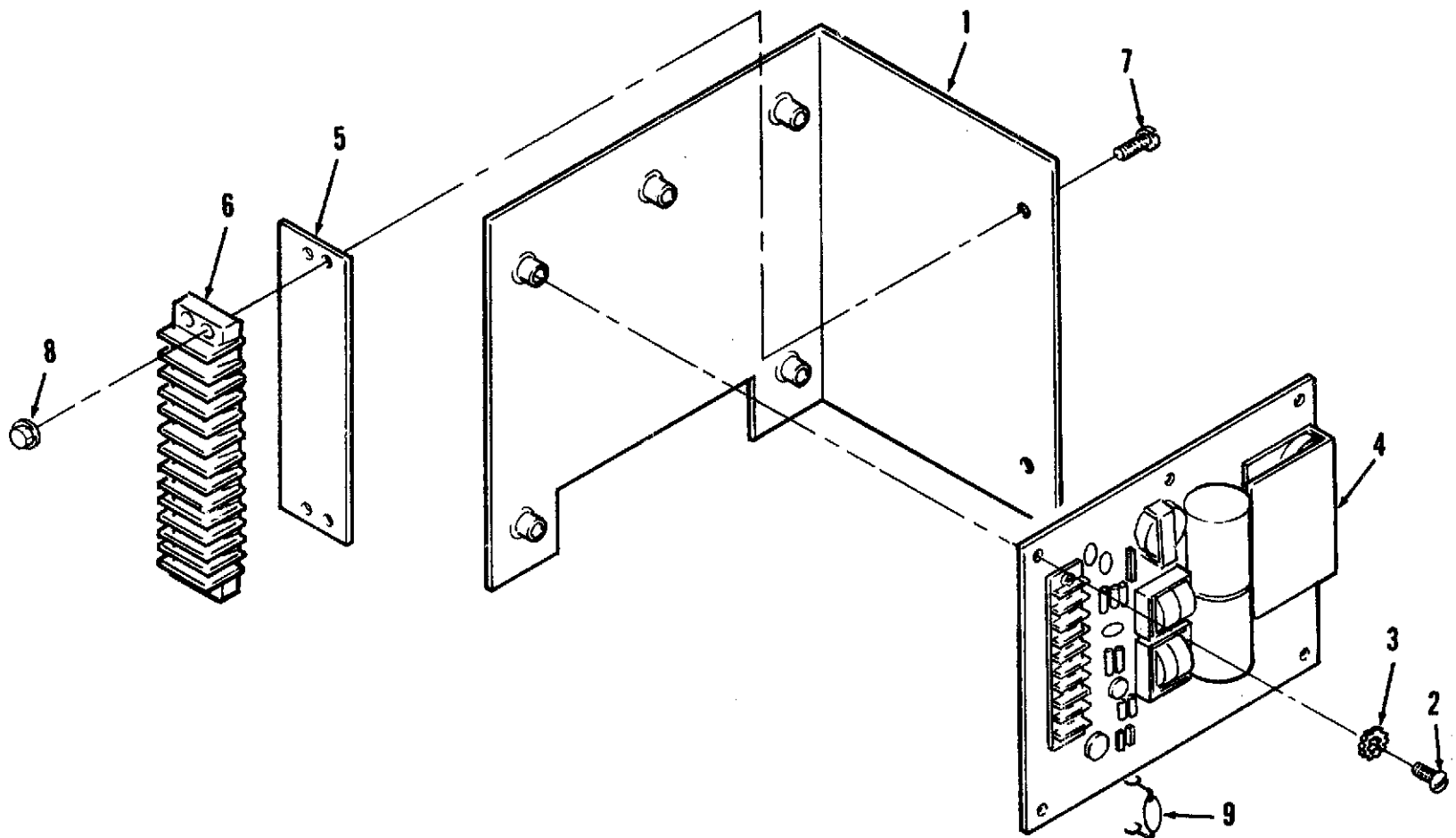
**Voltage Regulator Assembly  
(VRA21)  
DL4, DL6 (Spec C-D), DL6T (Spec A)**



195A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Regulator Assembly, Voltage - Complete Standard	7	315-0343	1	Reactor - Used on Switching Voltage Regulator Assemblies (VRA21L22)
	305-0693-01	1	Fixed Resistor	8	315-0343	1	Reactor (VRA21L21)
	305-0693-02	1	External Adjust	9	332-0607	1	Block, Terminal (VRA21TB2)
	305-0695-01	1	Fixed Resistor	10	332-2373	1	Strip, Marker
	305-0695-02	1	External Adjust	11	332-2387	4	Terminal, Tab - Used on Standard Voltage Regulator Assemblies
1	338-1443	1	Harness, Wiring	12	301-5736	1	Panel, Mounting
	338-1670	1	Standard Regulator	13			Screw, Machine - Round Head (#6-32 x 3/8")
2			Switching Regulator		812-0061	4	Standard Voltage Regulator Assemblies
			Board, Voltage Regulator (VR21)		812-0061	6	Switching Voltage Regulator Assemblies
	332-2045	1	Standard Regulator (Includes Fuses)	14	870-0183	8	Nut, Self-Locking - Hex Head with ET Lockwasher (#6-32)
3	300-2409	1	Switching Regulator	15	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4") Used on Standard Voltage Regulator Assemblies
	321-0204	2	Fuse (1/4 Amp) used with Standard Voltage Regulator Board (VR21F2,F3)	16	812-0059	4	Screw, Machine - Round Head (#6-32 x 1/4")
4	350-1190	1	Resistor - Fixed (1740 Ohms, 1/2 Watt) used on Voltage Regulator Assemblies without External Adjust (VRA21R21)	17	853-0003	4	Washer, Lock - ET (#6)
5	315-0431	1	Transformer (VRA21T21)	18	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")
6	305-0524	1	Bridge, Rectifier - Used on Standard Voltage Regulator Assemblies (VRA21CR21)				

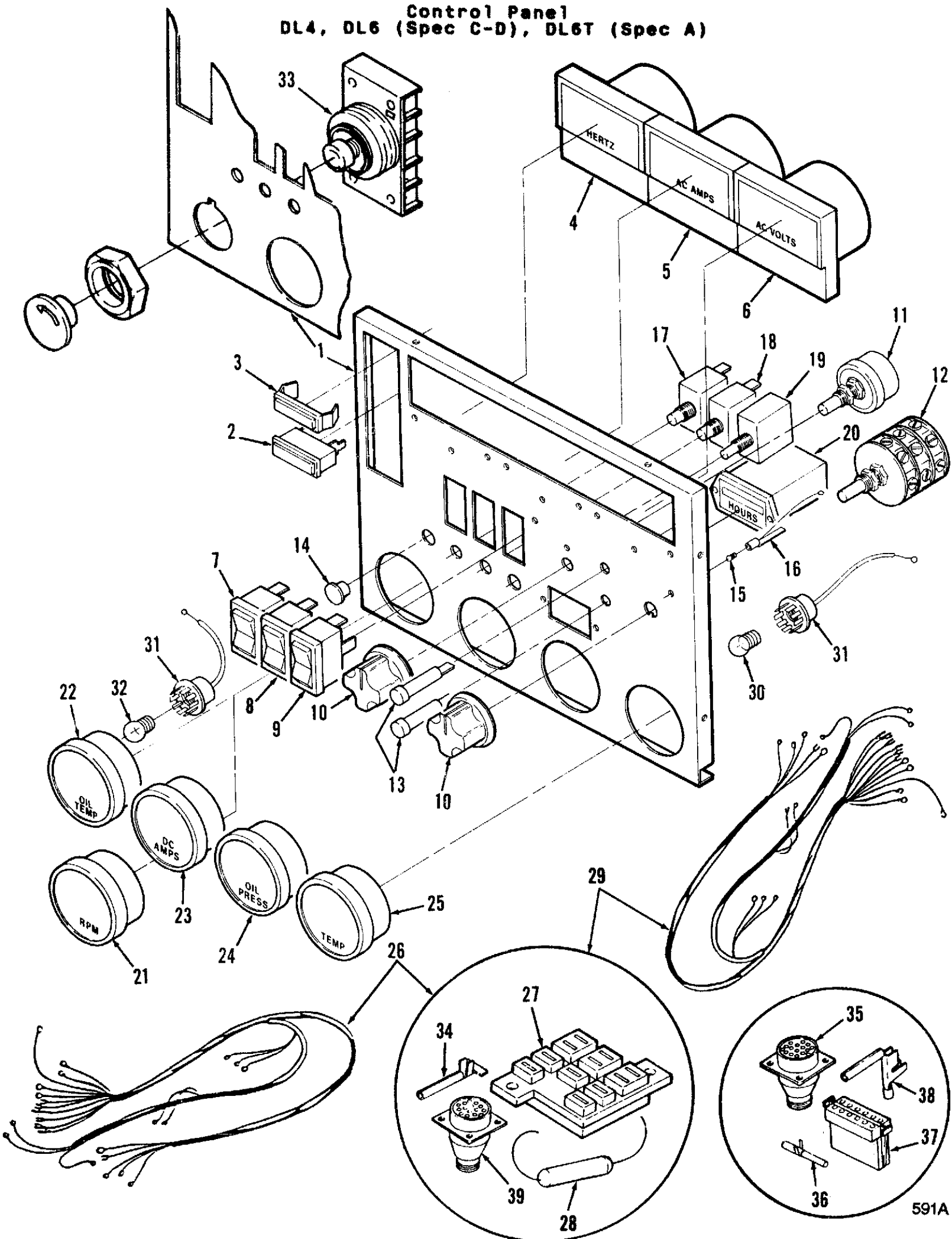
**Voltage Regulator Assembly**  
**(VRAS-2)**  
**DL4, DL6 (Spec C-D), DL6T (Spec A)**



194A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	305-0737	1	Regulator Assembly, Voltage - Complete	6	332-0607	1	Block, Terminal (VRAS-2TB2)
1	301-9334	1	Panel, Mounting	7	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")
2	812-0059	5	Screw, Machine - Round Head (#6-32 x 1/4")	8	870-0183	2	Nut, Self-Locking - Hex Head with ET Lockwasher (#6-32)
3	853-0003	5	Washer, Lock - ET (#6)	9	350-0394	1	Resistor - Fixed (2000 Ohms, 1/2 Watt) Used on Voltage Regulator Assemblies without External Adjust (VRAS-2R21)
4	300-2880	1	Board, Voltage Regulator (VR21)				
5	332-2373	1	Strip, Marker				

**Control Panel  
DL4, DL6 (Spec C-D), DL6T (Spec A)**

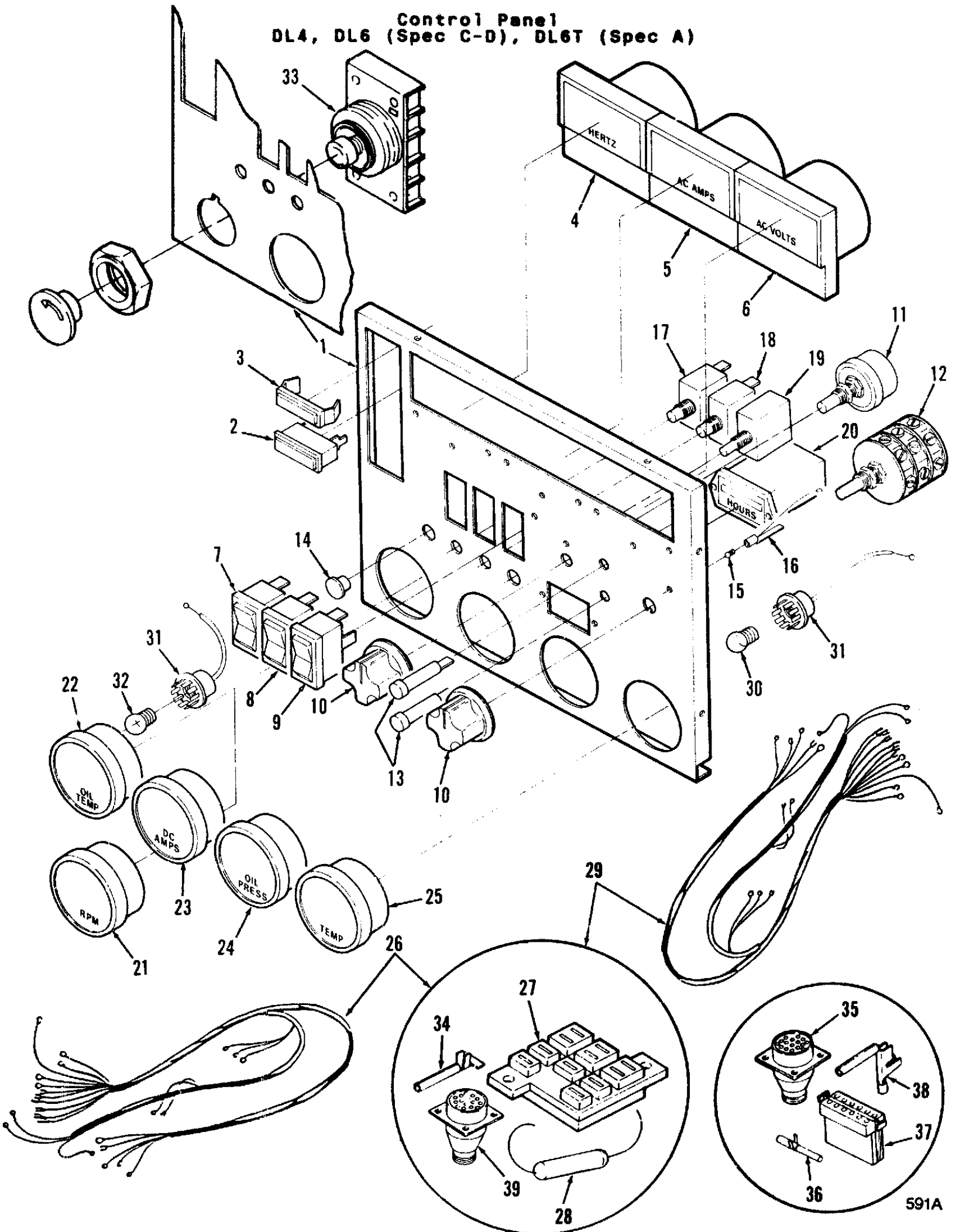


591A

# Control Panel DL4, DL6 (Spec C-D), DL6T (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Control	8	308-0533	1	Switch, Rocker - Pre Heat (S11)
	301-7348-01	1	Panels without AC Meters	9	308-0532	1	Switch, Rocker - Lamp Test (S12)
	301-7348-02	1	Panels with Three Round Gauge Holes	10	303-0032	2	Knob
			Panels with Four Round Gauge Holes	11	303-0170	1	Potentiometer - 25 Watt (R23)
			Panels with AC Meters				Used with VRA21 Voltage Regulator Assembly with External Adjust
	301-7349-01	1	Panels with Three Round Gauge Holes without Emergency Stop Switch		303-0261	1	Used with VRAS-2 Voltage Regulator Assembly with External Adjust
	301-9498	1	with Emergency Stop Switch	12	308-0284	1	Switch, Rotary - Voltmeter/Ammeter (S21)
	301-7349-02	1	Panels with Four Round Gauge Holes	13			Light, Pilot (DS21, DS22)
2			Light, Indicator (14VDC)		322-0323	2	Single Phase Sets
			Controls with Two Light Monitoring System		322-0211	2	Three Phase Sets
	322-0238	1	RUN - Green (DS1)	14	517-0132	1	Plug, Hole
	322-0128	1	FAULT - Red (DS2)	15	322-0203	2	Lamp (DS14, DS15)
			Controls with Nine Light Monitoring System	16	322-0213	2	Lampholder
			RUN - Green (DS1)	17	320-1110	1	Breaker, Circuit - Remote - 7 Amp (CB1)
	322-0238	1	LO ENG TEMP - Red (DS2)	18	320-1110	1	Breaker, Circuit - Control - 7 Amp (CB2)
	322-0110	1	HI ENG TEMP - Red (DS3)	19			Breaker, Circuit - Field
	322-0109	1	LO OIL PRES - Red (DS4)				Used with VRA21 Voltage Regulator Assembly
	322-0108	1	OVERSPEED - Red (DS5)		320-1138	1	3 Amp (Dual) - CB3, CB4
	322-0111	1	OVER CRANK - Red (DS6)		320-0530	1	5 Amp (CB3)
	322-0107	1	PRE HI ENG TEMP - Amber (DS7)		320-1121	1	Used with VRAS-2 Voltage Regulator Assembly - 3 Amp (CB3)
	322-0240	1	PRE LO OIL PRESS - Amber (DS8)	20	302-0885	1	Meter, Time Totalizing (M4)
	322-0241	1	SWITCH OFF - Red (DS9)	21			Tachometer (Includes Socket and Lamp) (M5)
3	322-0141	7	Lens, Indicator Light (No Legend or Lamp) Controls with Two Light Monitoring System		302-1873-01	1	DL4
4			Meter, Frequency - AC (M21)		302-1882	1	DL6
	302-1273	1	50 Hertz		302-1715	1	DL6T
	302-1153	1	60 Hertz	22	193-0330	1	Gauge, Oil Temperature (M5)
5			Ammeter - AC (M23)	23	302-1402	1	Ammeter - DC (M1)
			DL4	24	193-0320	1	Gauge, Oil Pressure (M2)
	302-1691	1	Single Phase	25	193-0319	1	Gauge, Water Temperature (M3)
	302-1473	1	Three Phase	26			Harness, Wiring - AC (Includes Socket for K11 Start Relay)
			DL6		338-1642-03	1	Controls without AC Meters
	302-1468	1	Single Phase		338-1642-02	1	Controls with AC Meters
			Three Phase				Single Phase Sets
	302-1147	1	All Except 347/600 Volt Sets				Three Phase Sets
	302-1298	1	347/600 Volt Sets		338-1642-01	1	All Except 347/600 Volt Sets (Also Includes Resistor and Socket for K21 Voltage Selector Relay)
			DL6T				Voltage Code 9XR
	302-1683	1	All Except 347/600 Volt Sets		338-1642-04	1	Socket, Relay (For K11, K21 Relays)
	302-1678	1	347/600 Volt Sets	27	323-0765	2	Resistor, Fixed - 47K Ohm, 1/2 Watt (R22)
6			Voltmeter - AC (M22)				
	302-1148	1	All Except 347/600 Volt Sets				
	302-1300	1	347/600 Volt Sets				
7			Switch, Rocker (Remote, Stop, Start) (S10)	28	350-0556	1	
	308-0531	1	Controls with Two Light Monitoring System				
			Controls with Nine Light Monitoring System				
	308-0620	1	Standard				
	308-0624	1	Pennsylvania State Approved				

**Control Panel  
DL4, DL6 (Spec C-D), DL6T (Spec A)**



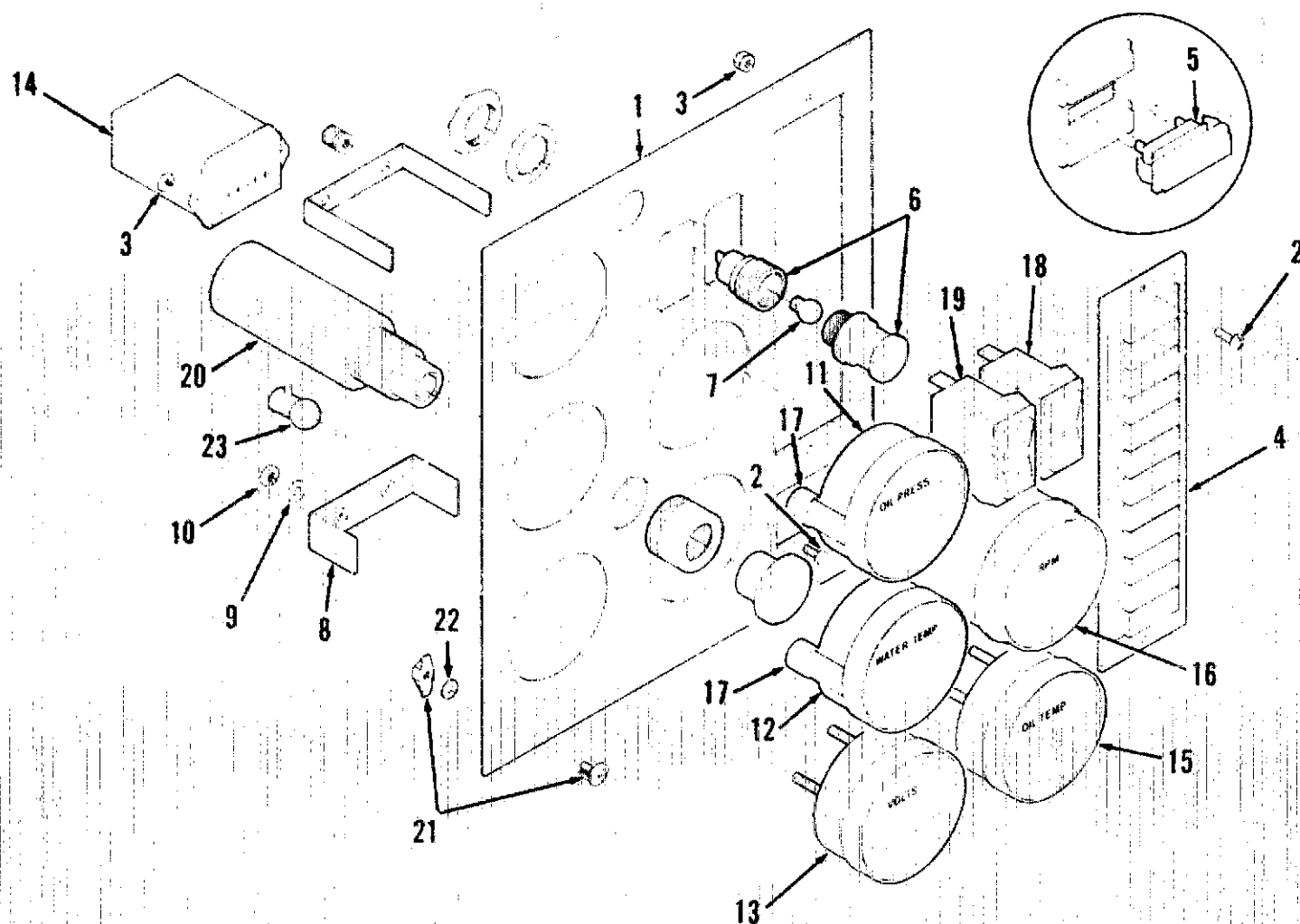
591A

**Control Panel**  
**DL4, DL6 (Spec C-D), DL6T (Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
29			Harness. Wiring - DC	35	323-1135	1	Receptacle - Square Flange (16 Pin) (P1) Used with 338-1643-01 Wiring Harness
	338-1643-01	1	Meters				
	338-1644	1	Switches				Pin, Male - Used with 323-1137 Receptacle
			Indicator Lights	36			16-12 Gauge Wire
	338-1646	1	Controls with Two Light Monitoring System		323-1193	3	18-14 Gauge Wire
	338-1645	1	Controls with Nine Light Monitoring System		323-1194	10	Plug. Connector (12 Pin) (J1, J2, J3) Used with 338-1643-01, 338-1644 and 338-1645 Wiring Harnesses
30	322-0308	3	Lamp. Pilot (DS10,DS11,DS12)	37	323-0984	3	Socket, Male (Side Feed)
31	322-0210	4	Socket, Lamp				Used with 338-1643-01 Wiring Harness
32	322-0004	1	Lamp. Pilot (DS13)				Used with 338-1644 Wiring Harness
33	308-0813-01	1	Switch, Push - Emergency Stop (S13) Includes Knob and Mounting Hardware	38	323-0488	8	Used with 338-1645 Wiring Harness
34			Socket, Female		323-0488	12	Receptacle - Square Flange (14 Pin) (P2)
	323-1229	11	Used With 338-1642-01 Wiring Harness		323-0488	10	
	323-1229	7	Used With 338-1642-02 Wiring Harness	39	323-1137	1	
	323-1229	5	Used With 338-1642-03 Wiring Harness				
	323-1229	10	Used With 338-1642-04 Wiring Harness				



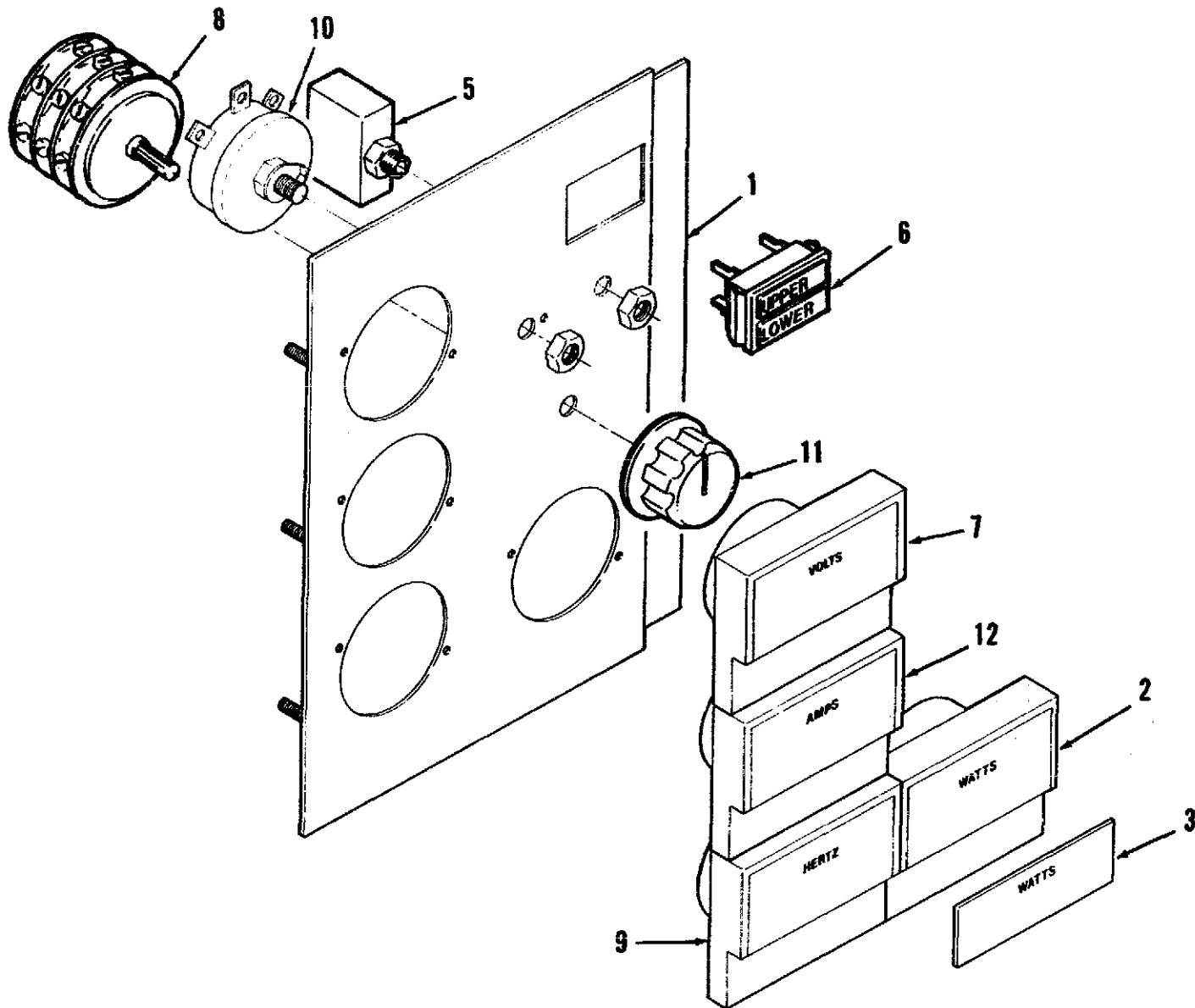
DC Control Door Assembly  
 DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,  
 DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)



571C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0421	1	Door, Control - DC	11	193-0352	1	Gauge, Oil Pressure (M11)
	319-0420	1	Doors with Three Round Gauge holes	12	193-0351	1	Gauge, Water Temperature (M12)
2	815-C385	4	Screw, Machine - Round Head (#6-32 x 1/2")	13	302-1641	1	Voltmeter (M13)
3	870-0183	4	Nut, Hex - with ET (#6-32)		302-1642	1	12 VDC
4			Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	14	302-0885	1	24 VDC
			Seven Light Assembly	15	193-0330	1	Meter, Time Totalizing (M14)
	322-0359-01	1	12 VDC	16			Gauge, Oil Temperature (Includes Mounting Clamp)
	322-0359-02	1	24 VDC				Tachometer (Part numbers for bulb and mounting hardware were not available at time of printing) (M16)
	322-0360-01	1	Twelve Light Assembly		302-1873-01	1	12 VDC
	322-0360-02	1	24 VDC		302-1873-02	1	24 VDC
5			Light, Indicator - Replacement	17	193-0250	2	Resistor, Gauge (Used on 24 VDC Applications) (R12, R13)
	322-0369-01	1	12 VDC	18	308-0892	1	Switch, Rocker - Restart/Preheat/Panel Light (S11)
	322-0369-02	1	24 VDC	19	308-0784	1	Switch, Rocker - Run/Stop/Remote (S12)
6	322-0361	1	Light, Panel (DS11)	20	308-0853	1	Switch, Pushbutton - Emergency Stop (Part Number for Bulb Not Available at Time of Printing) (S14)
7			Bulb, Panel Light - Replacement	21	406-0661	2	Latch, Panel
	322-0004	1	12 VDC	22	526-0367	2	Washer, Flat (#10)
	322-0017	1	24 VDC	23	322-0223	1	Bulb, Emergency Stop Switch
8	302-0270	3	Clamp, Mounting				
9	526-0049	9	Washer, Flat (#10)				
10	871-0010	18	Nut, Hex - Brass (#10-32)				

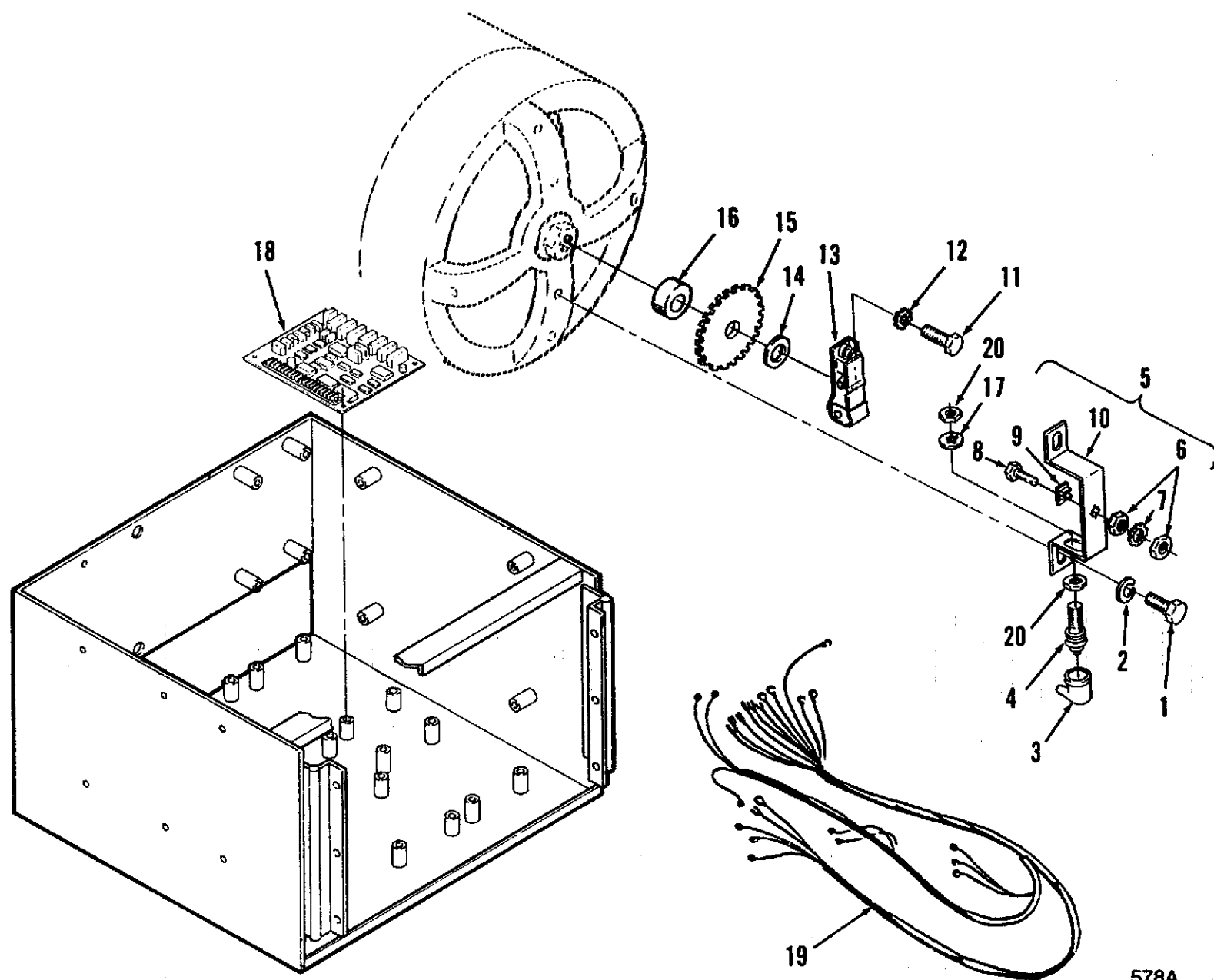
**AC Control Door Assembly**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**



570C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0417	1	Door, Control - AC Without Meters	9	302-1720	1	Meter, Frequency (Includes Resistor - Part Number Not Available at Time of Printing) (M23)
	319-0418	1	Door, Control - AC Without Wattmeter	10	303-0261	1	Potentiometer (R21)
	319-0419	1	Door, Control - AC With Wattmeter	11	303-0032	1	Knob, Rotary Switch
2	302-1722	1	Wattmeter (Dial Not Included) (M24)	12			Ammeter (M22)
3			Dial, Wattmeter		302-1473	1	0-50/100
	302-1721-01	1	DGAB, DGAC, DGAD, DL4 DL6, A41, A61		302-1147	1	0-75/150
	302-1721-02	1	DGAE, DL6T, AT61		302-1683	1	0-100/200
4	338-1936	1	Harness, Wiring - Watts Transducer (A21 to M24 and TB21)		302-1684	1	0-150/300
5	320-1121	1	Breaker, Circuit (CB21)		302-1685	1	0-200/400
6	322-0363	1	Light, Indicator - Upper/Lower Scale (DS21, DS22)		302-1724	1	0-250/500
7			Voltmeter (M21)		302-1725	1	0-375/750
	302-1148	1	0-300/600		302-1726	1	0-400/800
	302-1753	1	0-750		302-1727	1	0-500/1000
8	308-0882	1	Switch, Rotary - Voltmeter/Ammeter (Knob Not Included) (S21)		302-1728	1	0-600/1200
					302-1729	1	0-750/1500
					302-1798	1	0-1000/2000
					302-1799	1	0-1500/3000
					302-1800	1	0-2000/4000

**Magnetic Pickup**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**



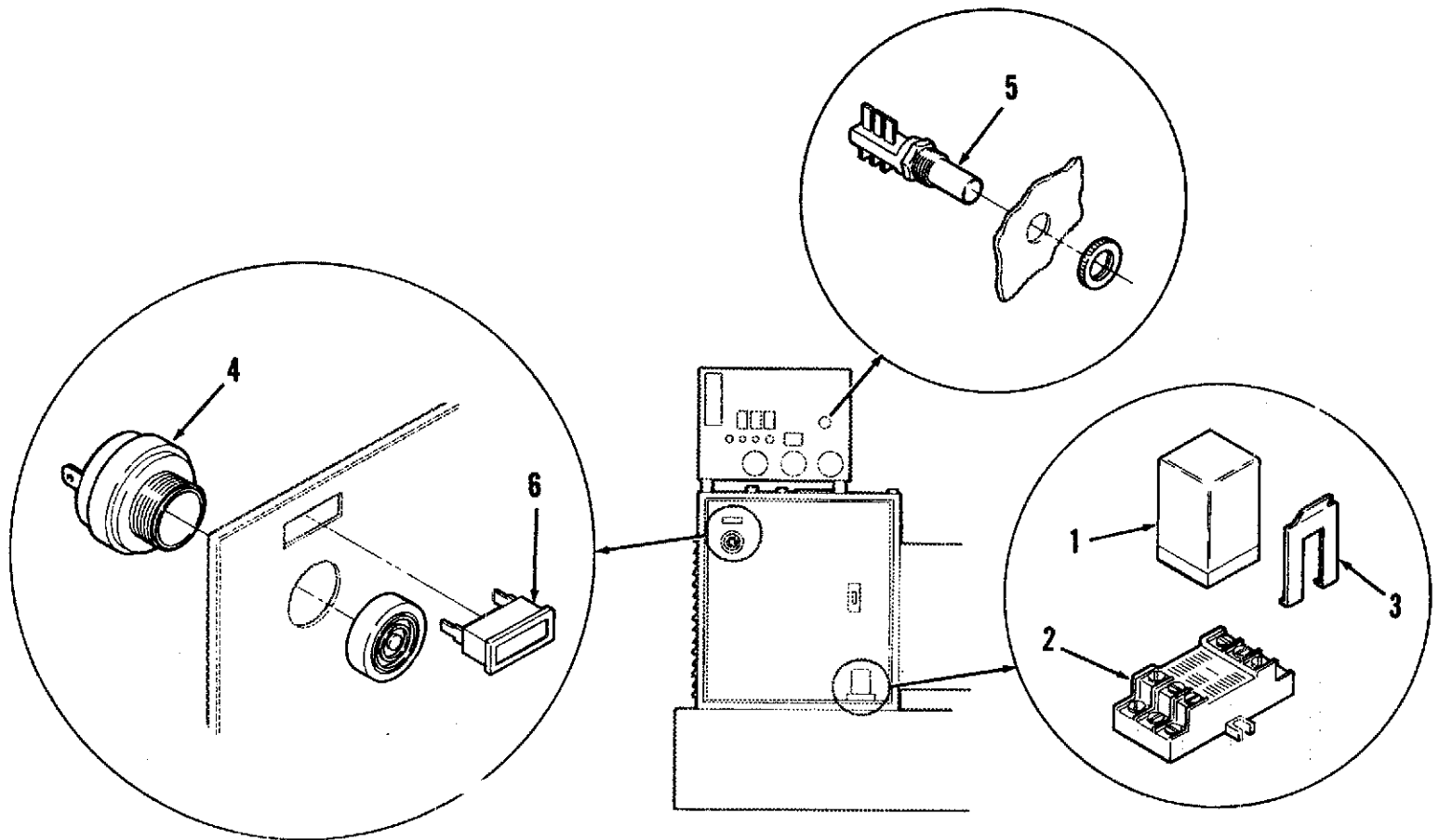
578A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
2	850-0040	2	Washer, Lock - Spring (1/4")
3	150-1410	1	Cap, Insulator
4	150-1406	1	Sensor, Speed - Magnetic
5	150-2117	1	Bracket and Point Assembly (Includes Parts Marked *)
6	862-0001	2	*Nut, Hex (1/4-20)
7	853-0013	1	*Washer, Lock - ET (1/4")
8	150-0723	1	*Point, Contact
9	870-0250	1	*Nut, Insulator
10	301-9402	1	*Bracket, Mounting
11	800-0053	1	Screw, Cap - Hex Head (3/8-16 x 1-3/4")
12	856-0010	1	Washer, Lock - EIT (3/8")
13	150-0717	1	Switch, Overspeed (S3)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	526-0077	1	Washer, Flat (3/8")
15	150-1557	1	Wheel, Sensor
16	370-4011	1	Spacer
17	854-0031	1	Washer, Lock - IT (3/4")
18			Board, Printed Circuit - Magnetic Pickup (A16)
	300-2901	1	12 VDC
	300-2903	1	24 VDC
19	338-1930	1	Harness, Wiring - Magnetic Pickup (A16 to A11)
20	868-0011	2	Nut, Hex - Jam (3/4-16)

\* - Parts Included in 150-2117 Bracket and Point Assembly

## Audible Alarm

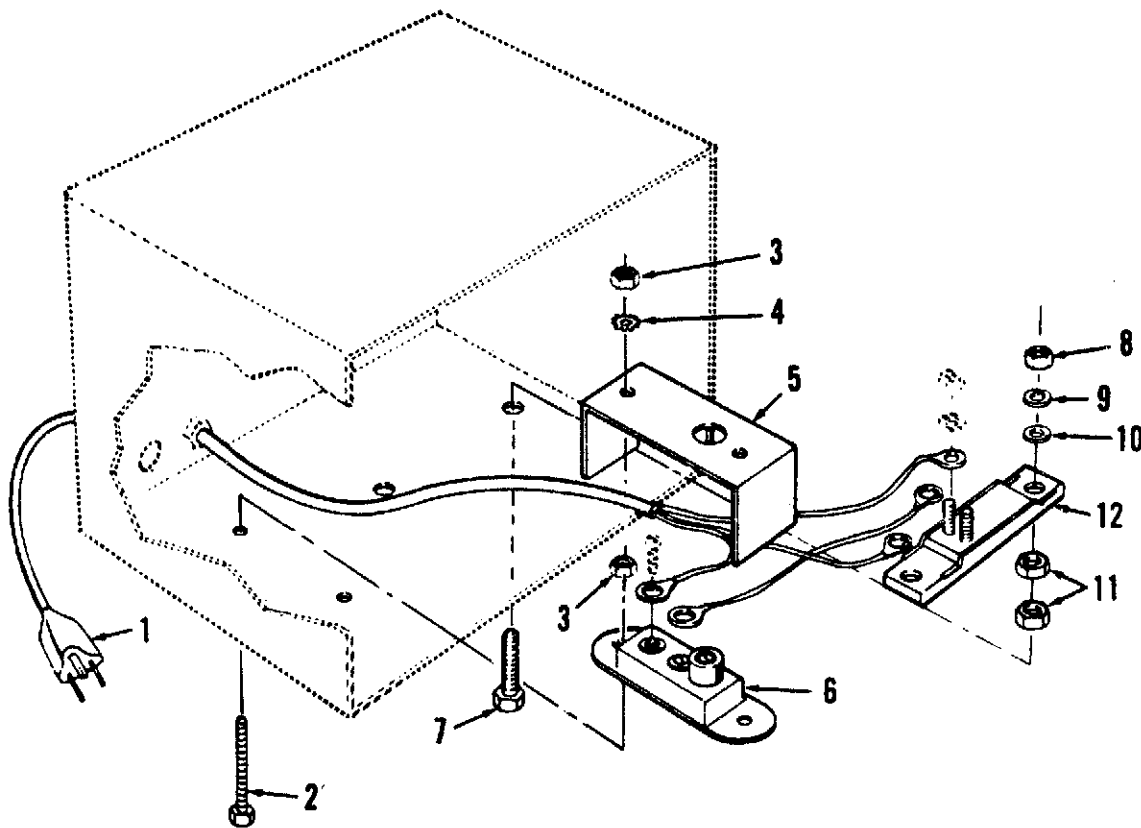


593B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1687	1	Relay (K1)
2	323-0804	1	Socket, Relay
3	307-1987	1	Holddown, Relay

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	333-0133	1	Signal, Audible (DS2)
5	308-0337	1	Switch, Push Button (S1)
6	322-0128	1	Light, Indicator (DS1)

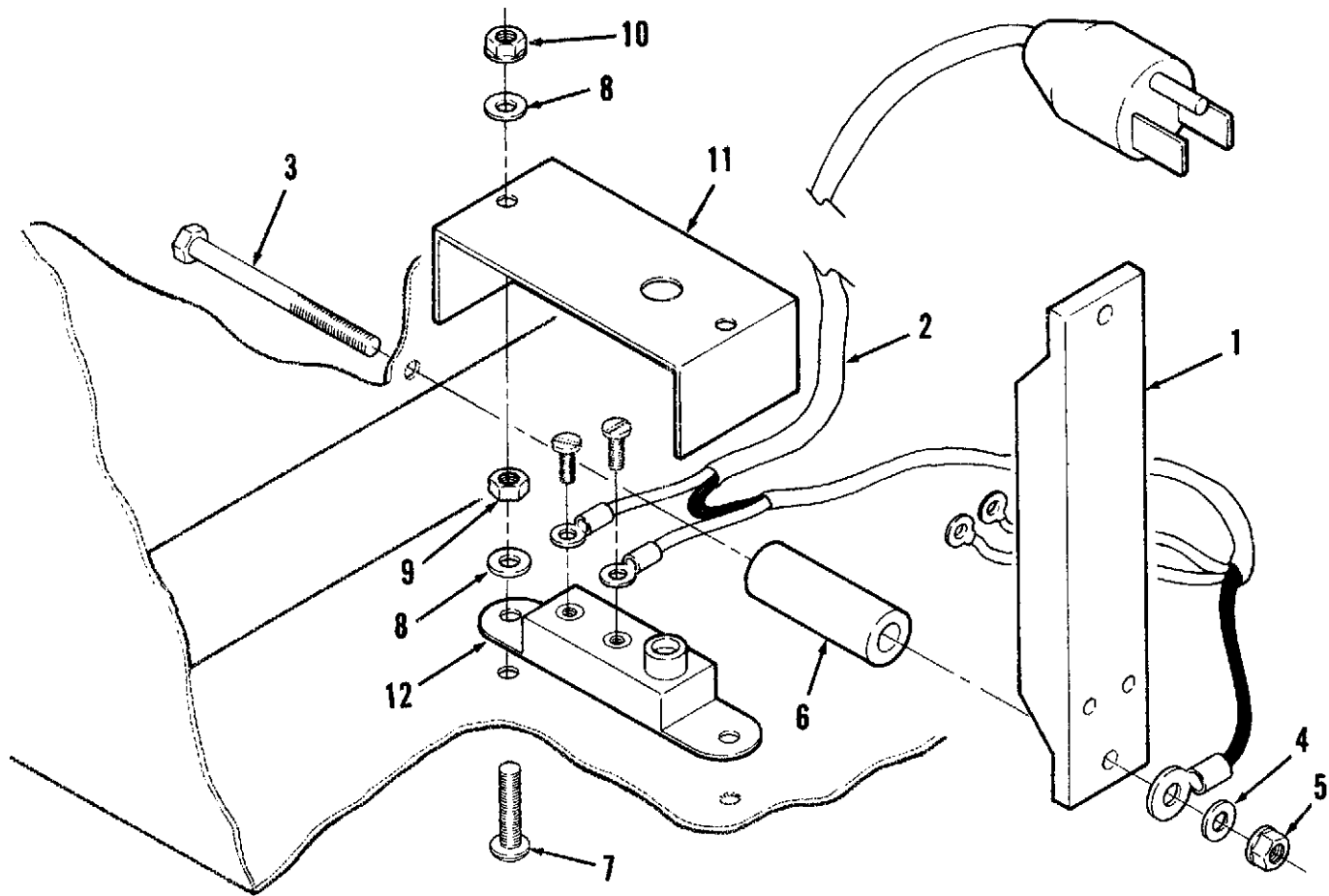
**Control Heater**  
**DL4, DL6 (Spec C - D) DL6T Spec A**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	335-0110	1	Cable, Electrical (3 Wire)
2	812-0090	2	Screw, Machine - Round Head (#6-32 x 2-1/4")
3	860-0006	4	Nut, Hex (#6-32)
4	856-0001	2	Washer, Lock - EIT (#6)
5	301-1886	1	Cover, Thermostat
6	309-0128	1	Thermostat - Adjustable
7	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	862-0001	2	Nut, Hex (1/4-20)
9	850-0040	2	Washer, Lock - Spring (1/4)
10	526-0052	2	Washer, Flat (17/64" ID x 9/16" OD x 1/16" Thk)
11	862-0015	4	Nut, Hex (5/16-18) - Used as Spacers
12	333-0151	1	Heater - 75 Watt, 120 VAC; 300 Watt, 240 VAC

**Control Heater**  
**DGAB, DGAC, DGAD, DGAE, A41, A61, AT61,**  
**DL4, DL6 (Begin Spec E), DL6T (Begin Spec B)**



574B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0151	1	Heater (HR1)	6	130-1107	2	Spacer
2	335-0161	1	Cable	7	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
3	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")	8	854-0006	4	Washer, Lock - IT (#6)
4	526-0113	2	Washer, Flat (11/32" ID x 1" OD x 3/32" Thk)	9	860-0006	2	Nut, Hex (#6-32)
5	870-0257	2	Nut, Self-Locking - Hex Head (5/16-18)	10	870-0183	2	Nut, Hex - with ET (#6-32)
				11	301-1886	1	Cover
				12	309-0128	1	Thermostat

## Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Paint (Pressurized 13 oz. Spray Can)
	525-0305	1	Green
	525-0551-02	1	Beige
	518-0452	-	Sealant, Thread (50 cc Bottle)





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